

HCD-DZ150K/DZ151KB

SERVICE MANUAL



Ver. 1.2 2007.05

Russian Model
E Model

HCD-DZ150K/DZ151KB

Australian Model

HCD-DZ150K



Photo : HCD-DZ150K

HCD-DZ150K/DZ151KB are the amplifier, DVD/CD and tuner section in DAV-DZ150K/DZ151KB.

This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

* Manufactured under license from Dolby Laboratories.

“Dolby”, “Pro Logic”, and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license from DTS, Inc.

“DTS” and “DTS Digital Surround” are registered trademarks of DTS, Inc.

Model Name Using Similar Mechanism	HCD-DZ110
Mechanism Type	CDM85-DVBU102
Optical Pick-up Name	KHM-313CAA

SPECIFICATIONS

Amplifier section

Stereo mode (rated) 108 W + 108 W (at 3 ohms, 1 kHz, 1 % THD)

Surround mode (reference) RMS output power
FL/FR/C/SL/SR*: 142 watts
(per channel at 3 ohms, 1 kHz, 10 % THD)
Subwoofer*: 140 watts (at 3 ohms, 80 Hz, 10 % THD)

* Depending on the sound field settings and the source, there may be no sound output.

Inputs (Analog)

TV/VIDEO (AUDIO IN) Sensitivity: 450/250 mV

AUDIO IN/MIC 1 Sensitivity:
AUDIO IN 250/125 mV/
MIC 1 1 mV
Sensitivity: 1 mV

MIC 2

DVD system

Laser Semiconductor laser
(DVD: $\lambda = 650$ nm)
(CD: $\lambda = 790$ nm)
Emission duration:
continuous

Signal format system

Mexican and Latin American models:

NTSC

Other models: NTSC/PAL

Tuner section

System PLL quartz-locked digital synthesizer

FM tuner section
Tuning range 87.5-108.0 MHz (50 kHz step)

Antenna (aerial) FM wire antenna (aerial)
Antenna (aerial) terminals 75 ohms, unbalanced

Intermediate frequency 10.7 MHz

AM tuner section

Tuning range
Mexican and Latin American models:
530 – 1,710 kHz (with the interval set at 10 kHz)
531 – 1,710 kHz (with the interval set at 9 kHz)

Russian and Middle Eastern models:
531 – 1,602 kHz (with the interval set at 9 kHz)

Australian and New Zealand models:
531 – 1,710 kHz (with the interval set at 9 kHz)
530 – 1,710 kHz (with the interval set at 10 kHz)

Other models:
531 – 1,602 kHz (with the interval set at 9 kHz)
530 – 1,610 kHz (with the interval set at 10 kHz)

Antenna (aerial) AM loop antenna (aerial)
Intermediate frequency 450 kHz

Video section

Outputs VIDEO: 1 Vp-p 75 ohms
S VIDEO:
Y: 1 Vp-p 75 ohms
C: 0.286 Vp-p 75 ohms
COMPONENT:
Y: 1 Vp-p 75 ohms
PB/CB, PR/CR: 0.7 Vp-p 75 ohms

General

Power requirements
Mexican models: 120 V AC, 60 Hz
Saudi Arabian models: 127 - 240 V AC, 50/60 Hz
Argentine models: 220 - 240 V AC, 50/60 Hz
Latin American models (except for Argentine models):

Taiwan models: 110 - 240 V AC, 50/60 Hz
Other models: 120 V AC, 50/60 Hz
220 - 240 V AC, 50/60 Hz

Power consumption
Latin American and Saudi Arabian models:
On: 160 W
Standby: 0.3 W (at the Power Saving mode)

Other models:
On: 140 W
Standby: 0.3 W (at the Power Saving mode)

Dimensions (approx.) 430 × 63 × 380 mm (w/h/d) incl. projecting parts

Mass (approx.) 4.1 kg

Design and specifications are subject to change without notice.

DVD RECEIVER

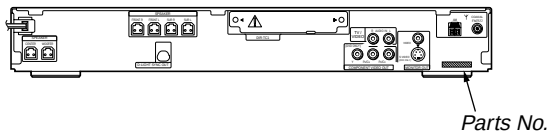
9-887-566-03
2007E16-1
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Sony Corporation
Home Audio Division
Published by Sony Techno Create Corporation

SONY®

MODEL IDENTIFICATION

– Rear Panel –



Model	Part No.
DZ150K: RU model	2-896-162-0□
DZ150K: SP model	2-896-162-1□
DZ150K: E32 model	2-896-162-2□
DZ150K: AUS model	2-896-162-3□
DZ150K: E3 model	2-896-162-4□
DZ150K: E12 model	2-896-162-5□
DZ150K: AR model	2-896-162-6□
DZ150K: TW model	2-896-162-7□
DZ150K: KR model	2-896-162-8□
DZ150K: EA model	3-095-152-1□
DZ151KB: E12 model	3-094-633-0□
DZ151KB: MX model	3-094-633-2□
DZ151KB: RU model	3-094-633-8□
DZ151KB: E32 model	3-094-633-9□

- Abbreviation
 - AR : Argentine model
 - AUS : Australian model
 - E3 : 220 – 240V AC area in E model
 - E12 : 220 – 240V AC area in E model
 - E32 : 110 – 240V AC area in E model
 - EA : Saudi Arabia model
 - KR : Korean model
 - MX : Mexican model
 - RU : Russian model
 - SP : Singapore model
 - TW : Taiwan model

As for MAIN board and POWER board, the suffix of a board has been changed with running change.

MAIN board : 11 → 12

POWER board : 12 → 13

Please see SUPPLEMENT-1 about the information on MAIN board suffix -12.

POWER board suffix -13 doesn't change pattern.

It is described in parallel in this original service manual.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. This marking is located on the rear exterior. (Except for Korean model)

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.

(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

**: LEAD FREE MARK**

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350 °C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Special Component Notice

The components identified by mark contain confidential information.

Strictly follow the instructions whenever the components are repaired and/or replaced.

Self-diagnosis Function

(When letters/numbers appear in the display)

When the self-diagnosis function is activated to prevent the system from malfunctioning, a 5-character service number (e.g., C 13 50) with a combination of a letter and 4 digits appears on the screen and the front panel display. In this case, check the following table.



First 3 characters of the service number	Cause and/or corrective action
C 13	The disc is dirty. ➡Clean the disc with a soft cloth
C 31	The disc is not inserted correctly. ➡Restart the system, then re-insert the disc correctly.
E XX (xx is a number)	To prevent a malfunction, the system has performed the self-diagnosis function. ➡Contact your nearest Sony dealer or local authorized Sony service facility and give the 5-character service number. Example: E 61 10

When displaying the version number on the screen

When you turn on the system, the version number [VER.X.XX] (X is a number) may appear on the screen. Although this is not a malfunction and for Sony service use only, normal system operation will not be possible. Turn off the system, and then turn on the system again to operate.



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- Abbreviation
- RU : Russian model

SECTION 1

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

DISC TRAY LOCK

The disc tray lock function for the antitheft of a demonstration disc in the store is equipped.

Setting Procedure :

1. Press the  button to turn the set on.
2. Press the  button to set DVD function.
3. Insert a disc.
4. Press the  button and the  button simultaneously for five seconds.
5. The message "LOCKED" is displayed and the tray is locked.

Releasing Procedure :

1. Press the  button and the  button simultaneously for five seconds again.
2. The message "UNLOCKED" is displayed and the tray is unlocked.

Note: When "LOCKED" is displayed, the tray lock is not released by turning power on/off with the  button.

On cleaning discs, disc/lens cleaners

- Do not use cleaning discs or disc/lens cleaners (including wet or spray types). These may cause the apparatus to malfunction.

IMPORTANT NOTICE

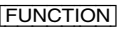
Caution: This system is capable of holding a still video image or on-screen display image on your television screen indefinitely. If you leave the still video image or on-screen display image displayed on your TV for an extended period of time you risk permanent damage to your television screen.

Projection televisions are especially susceptible to this.

Attention when transported

Use this mode when returning the set to the customer after repair.

Procedure:

1. Press the  button to turn the set on.
2. Press the  button to set the function "DVD".
3. Remove all discs, and then press two buttons  and  simultaneously.
4. After a message "MECHA LOCK" is displayed on the fluorescent indicator tube, pull out the AC plug.
5. To exit from this mode, press the  button to turn the set on.

Note about CDs/DVDs

The system can play CD-ROMs/CD-Rs/CD-RWs recorded in the following formats:

- audio CD format
- VIDEO CD format
- MP3 audio tracks, JPEG image files, and DivX video files of format conforming to ISO 9660 Level 1/Level 2, or its extended format, Joliet

The system can play DVD-ROMs/DVD+RWs/DVD-RWs/DVD+Rs/DVD-Rs recorded in the following formats:

- MP3 audio tracks, JPEG image files, and DivX video files of format conforming to UDF (Universal Disc Format)

Example of discs that the system cannot play

The system cannot play the following discs:

- CD-ROMs/CD-Rs/CD-RWs other than those recorded in the formats listed on "Note about CDs/DVDs"
- CD-ROMs recorded in PHOTO CD format
- Data part of CD-Extras
- DVD Audios
- Super Audio CD
- DATA DVDs that do not contain MP3 audio tracks, JPEG image files, or DivX video files
- DVD-RAMs

Also, the system cannot play the following discs:

- A DVD VIDEO with a different region code
- A disc that has a non-standard shape (e.g., card, heart)
- A disc with paper or stickers on it
- A disc that has the adhesive of cellophane tape or a sticker still left on it

Notes about CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW

In some cases, CD-R/CD-RW/DVD-R/DVD-RW/DVD+R/DVD+RW cannot be played on this system due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.

The disc will not play if it has not been correctly finalized. For more information, see the operating instructions for the recording device.

Note that some playback functions may not work with some DVD+RWs/DVD+Rs, even if they have been correctly finalized. In this case, view the disc by normal playback. Also some DATA CDs/DATA DVDs created in Packet Write format cannot be played.

Copyrights

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

This system incorporates with Dolby* Digital and Dolby Pro Logic (II) adaptive matrix surround decoder and the DTS** Digital Surround System.

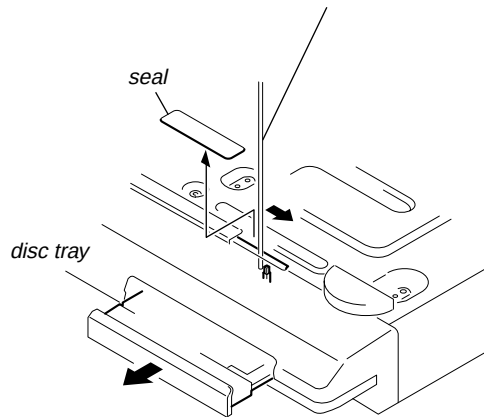
* Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.

** Manufactured under license from DTS, Inc. "DTS" and "DTS Digital Surround" are registered trademarks of DTS, Inc.

How to open the disc table when power switch turns off

Insert a tapering driver into the aperture of the unit bottom, and slide it in the direction of the arrow.

Peel off the seal and so the lever is moved in the direction of the arrow with the thin rod.



Discharge the charged electricity in capacitors to prevent electric shock as follows

When disassembling the machine, be sure to discharge the charged electricity in the following capacitors. Use a resistor of 800 ohms, 2 Watts for discharging the following capacitors.

POWER board

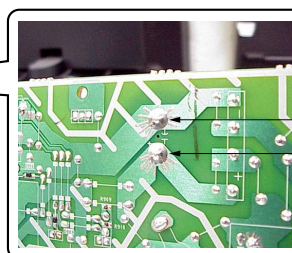
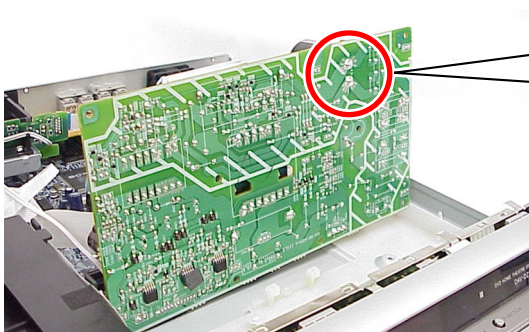
C903: 440 V (Except Mexican and Taiwan model) / 240 V (Mexican model) / 190 V (Taiwan model)
C932, C933, C934, CN904: 30 V

MAIN board

CN3002: 30 V



Point of capacitor discharge for C932, C933, C934:
Connect to the red and black wire of CN904



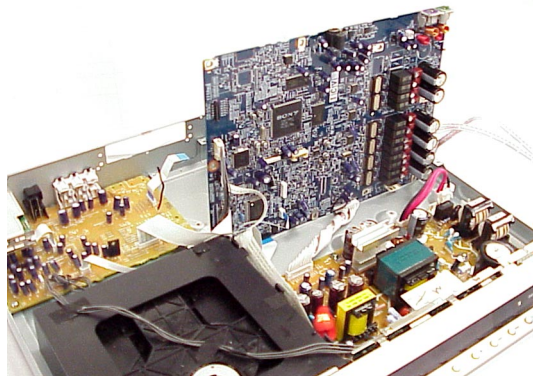
800 Ω /2W

Point of capacitor discharge for C903:
Connect to the foot of CN903

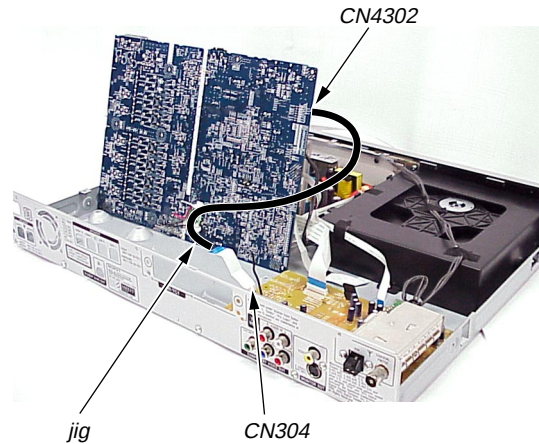
MAIN board service position

Please take the above-mentioned position in the repair of MAIN board.

In that case, it is necessary the following extension cable during CN304 on IO-S-OUT board and CN4302 on MAIN board.



jig P/N: J-2501-242-A
(pitch 1.00 mm/11p/length 300 mm)

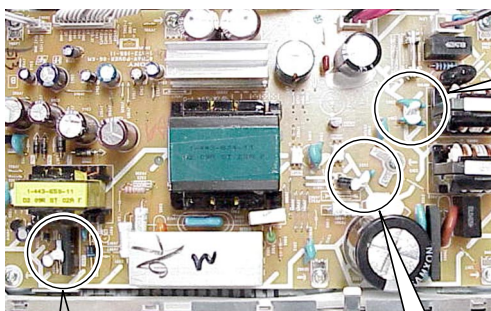


Parts that require fixing using adhesive agent

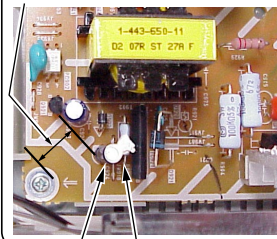
The following parts on the POWER board must be fixed by using the adhesive agent (such as Sony Bond Master) as it is specified by Safety Regulations. When any part or printed circuit board is replaced during repair work, be sure to confirm that the following capacitors and resistors are fixed by using the adhesive agent (such as Sony Bond Master) without fail.

- POWER board:
- C924 and R927 (refer to below fig.)
 - C913 (Push down to C903 side and so fix.)
 - C910 and C930 (refer to below fig.)
 - EB905 side of C903
 - EB905 side of C934
 - C964 and C963 (refer to below fig.)
 - Space between C933 and C932
 - C908 and Q901 (Don't touch IC901.)

POWER BOARD

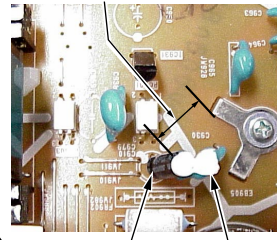


OK: more than 8mm
NG: less than 8mm
Don't incline C924 to outside.



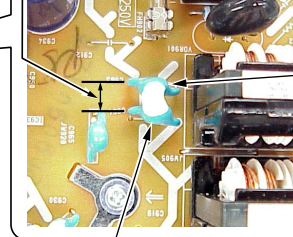
C924 R927

OK: more than 8mm
NG: less than 8mm



C910 C930

OK: more than 3.5mm
NG: less than 3.5mm

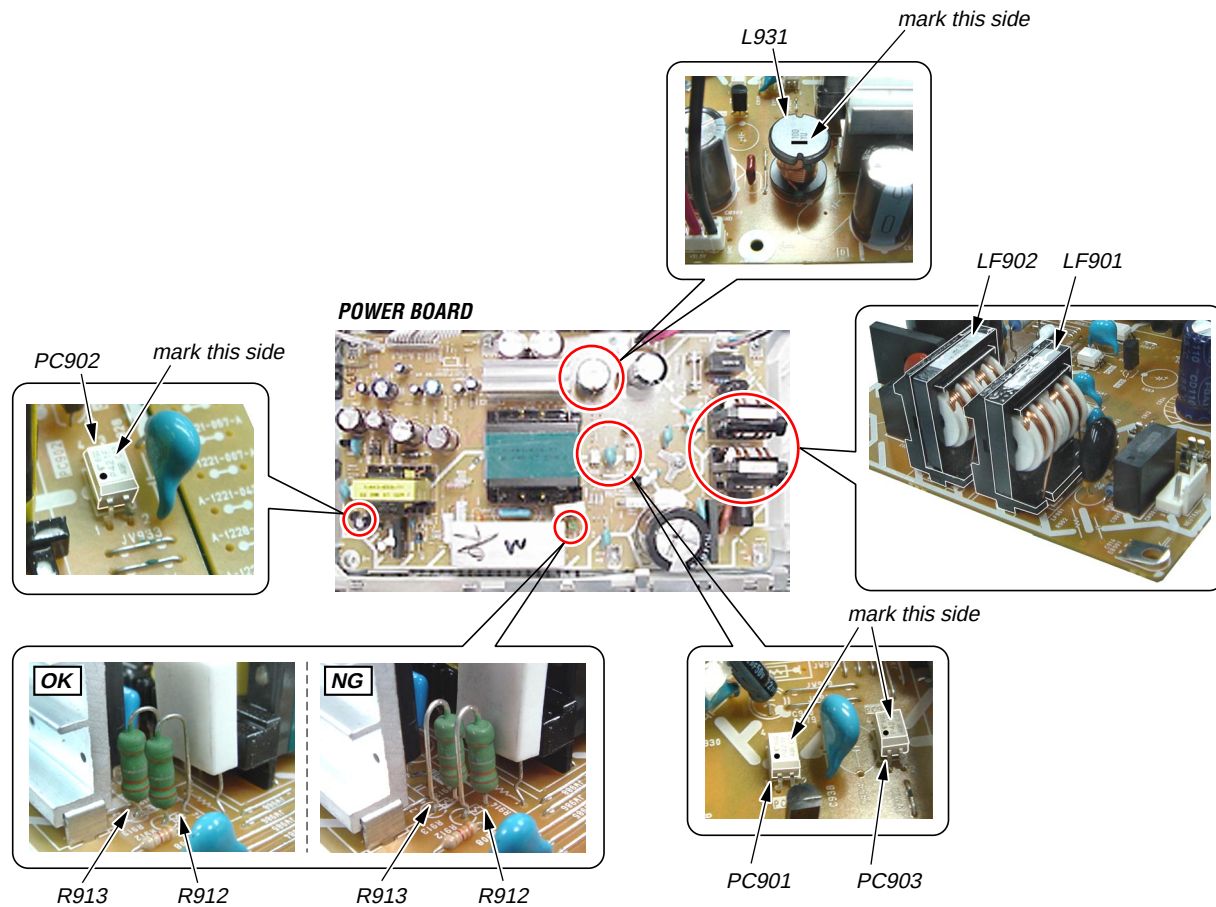


C964

C963

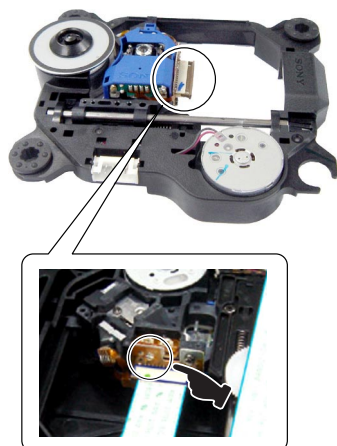
Attention of the direction at replacement

Please defend and install the direction of the below fig in the following parts on the POWER board.



Precaution when installing a new OP unit /

Precaution before unsoldering the static electricity prevention solder bridge

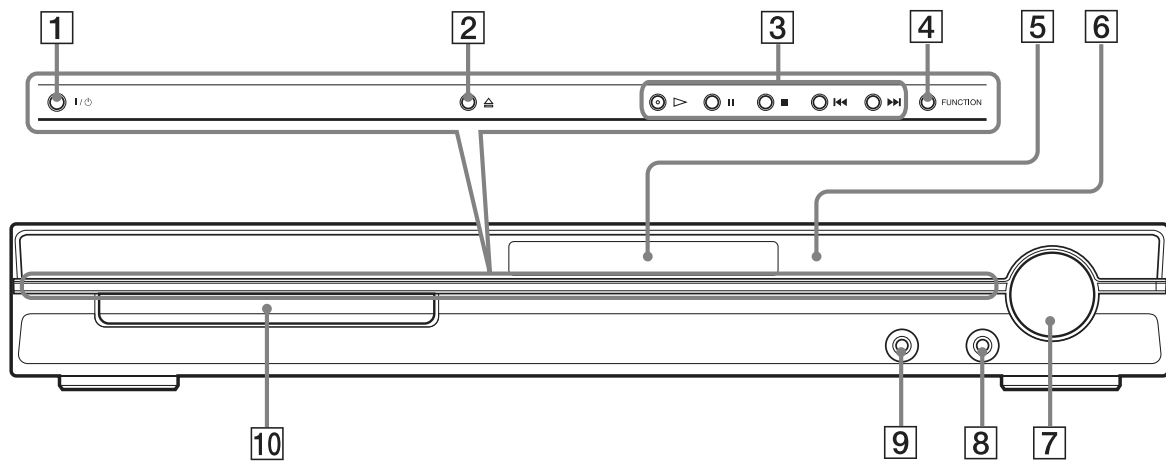


When installing a new OP unit, be sure to connect the flexible printed circuit board first of all before removing the static electricity prevention solder bridge by unsoldering.
Remove the static electricity prevention solder bridge by unsoldering after the flexible printed circuit board has already been connected.
(Do not remove nor unsolder the solder bridge as long as the OP unit is kept standalone.)

SECTION 2 GENERAL

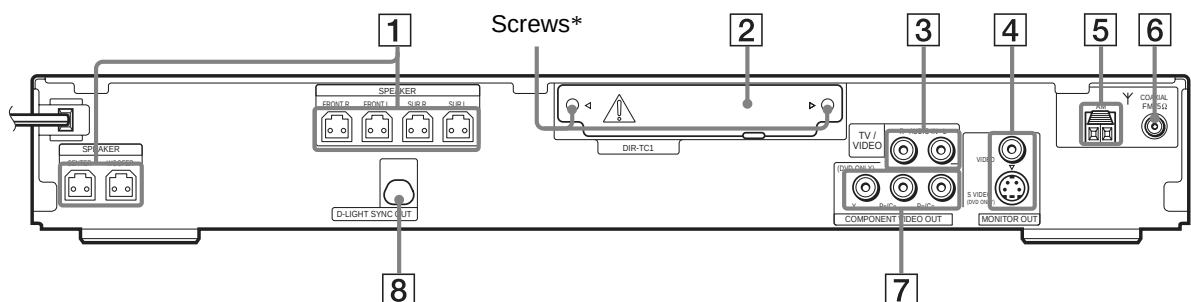
This section is extracted from instruction manual.

Front panel



- | | |
|--|---|
| 1 I/O (on/standby) (25) | 7 VOLUME control (25) |
| 2 $\triangle$ (open/close) (25) | 8 MIC 2 jack (58) |
| 3 Disc operation (25) | 9 AUDIO IN/MIC 1/A.CAL MIC jack (15, 23, 58) |
| 4 FUNCTION (25) | 10 Disc tray (25) |
| 5 Front panel display (93) | |
| 6 $\square$ (remote sensor) (9) | |

Rear panel



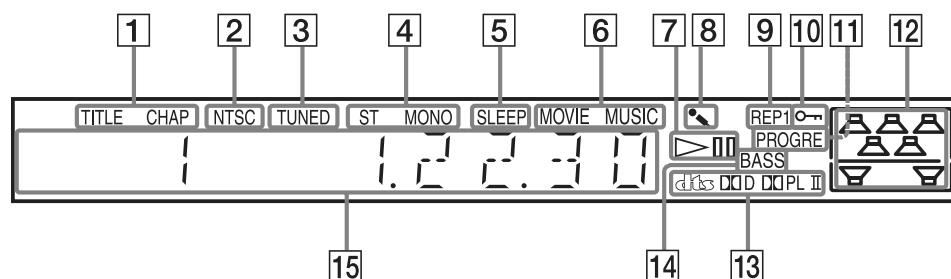
- | | |
|--|--|
| 1 SPEAKER jacks (10) | 8 D-LIGHT SYNC OUT jack (Indian, Singapore, Mexican, and Latin American models only) (23) |
| 2 DIR-TC1 slot for the WAHT-SD1 (except for Russian model) (23) | |
| 3 TV/VIDEO (AUDIO IN R/L) jacks (23) | |
| 4 MONITOR OUT (S VIDEO/VIDEO) jacks (20) | |
| 5 AM terminal (10) | |
| 6 COAXIAL FM 75Ω jack (10) | |
| 7 COMPONENT VIDEO OUT jacks (20) | |

*** CAUTION**

Please do not remove the screws before installing the WAHT-SD1.

Front panel display

About the indications in the front panel display



- | | |
|--|---|
| <p>1 Lights up when the time information of a title or chapter appears in the front panel display. (DVD only) (41)</p> <p>2 Lights up when the color system is set to NTSC. (Asian, Australian and Middle Eastern models only)</p> <p>3 Lights up when a station is received. (Radio only) (54)</p> <p>4 Stereo/Monaural effect (Radio only) (55)</p> <p>5 Lights up when the sleep timer is set. (62)</p> <p>6 Lights up when the movie or music mode is selected. (28)</p> <p>7 Playing status (DVD function only)</p> <p>8 Lights up when the karaoke mode is on. (58)</p> <p>9 Current repeat mode (37)</p> | <p>10 Lights up when the child lock function is set to on. (63)</p> <p>11 Lights up when the system outputs progressive signals (DVD function only). (21)</p> <p>12 Indicates the selected [SPEAKER FORMATION]. (67)</p> <p>13 Current surround format (Except for JPEG)</p> <p>14 Lights up when the DYNAMIC BASS is selected. (62)</p> <p>15 Displays system's status such as chapter, title, or track number, time information, radio frequency, playing status, sound field, etc.</p> |
|--|---|

Remote control

ALPHABETICAL ORDER

A – O

ANGLE **[5]** (43)
 AUDIO **[4]** (38)
 CLEAR **[34]** (32, 57, 72)
 D.TUNING **[24]** (55)
 DISPLAY **[37]** (41, 56)
 DVD MENU **[26]** (38, 51, 57)
 DVD TOP MENU **[14]** (38)
 DYNAMIC BASS **[23]** (62)
 ECHO **[18]** (59)
 ENTER **[25]** (57)
 FUNCTION **[22]** (21, 25, 26, 33, 54, 67)
 KARAOKE PON **[2]** (60)
 KEYCON #/b **[21]** (60)
 MIC VOL +/- **[36]** (59)
 MOVIE/MUSIC **[17]** (28)
 MUTING **[7]** (25)
 Number buttons* **[15]** (32, 55, 57, 64)

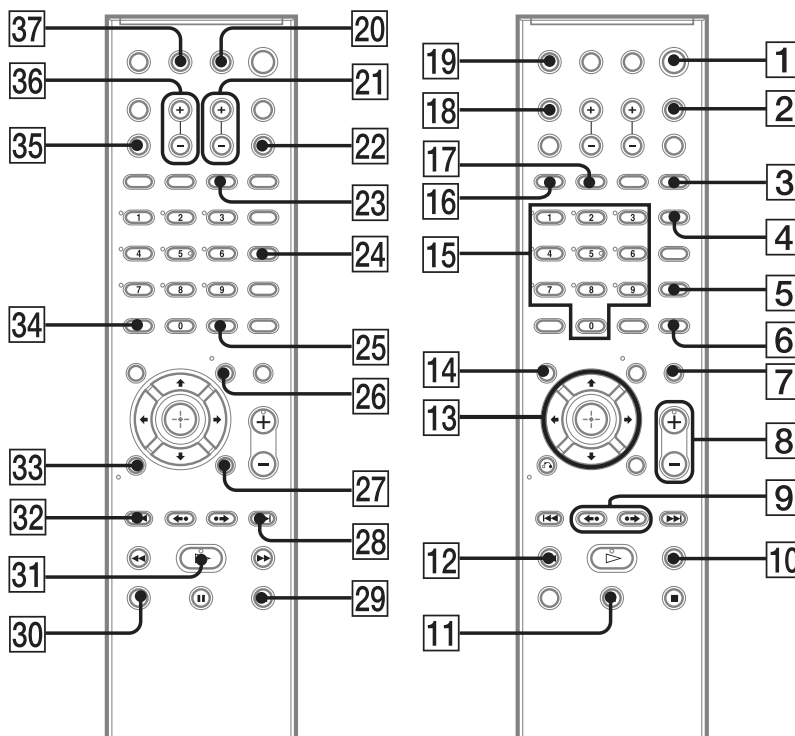
P – Z

PICTURE NAVI **[6]** (33, 57)
 PRESET +/- **[28]** **[32]** (55)
 SCORE **[35]** (61)
 SOUND FIELD **[16]** (29)
 SUBTITLE **[24]** (44)
 SYSTEM MENU **[25]** (18, 27, 57, 63, 99)
 THEATRE SYNC **[20]** (58)
 TUNING +/- **[10]** **[12]** (54)
 TV **[30]** (57)
 TV CH +/- **[28]** **[32]** (57)
 TV INPUT **[37]** (57)
 TV VOL +/-* **[8]** (57)
 VIDEO FORMAT **[3]** (21)
 VOLUME +/-* **[8]** (25, 55, 78)

BUTTON DESCRIPTIONS

I/⏻ (on/standby) **[1]** (15, 18, 25, 33, 55)
 TV **I/⏻** (on/standby) **[1]** (57)
⏮/⏪/⏩/⏭ **[13]** (15, 18, 27, 32, 54, 64)
⏮/⏪/⏩/⏭ REPLAY/ADVANCE **[9]** (25)
⏮/⏪/⏩/⏭ **[32]** **[28]** (25)
⏮/⏪/⏩/⏭ **[12]** **[10]** (31)
⏮/⏪/⏩/⏭ SLOW **[12]** **[10]** (31)
▶ (play)* **[31]** (25, 33, 66)
⏮/⏪/⏩/⏭ STEP **[9]** (31)
■ (stop) **[29]** (25, 33, 64)
⏸ (pause) **[11]** (25)
⏴ (open/close) **[19]** (25)
⏴ DISPLAY **[27]** (16, 32, 64, 94)
⏴ RETURN **[33]** (33)
 -/-- **[34]** (57)

* The **▶**, number 5, and VOLUME + (TV VOL+) buttons have tactile dots. Use the tactile dots as references when operating the system.

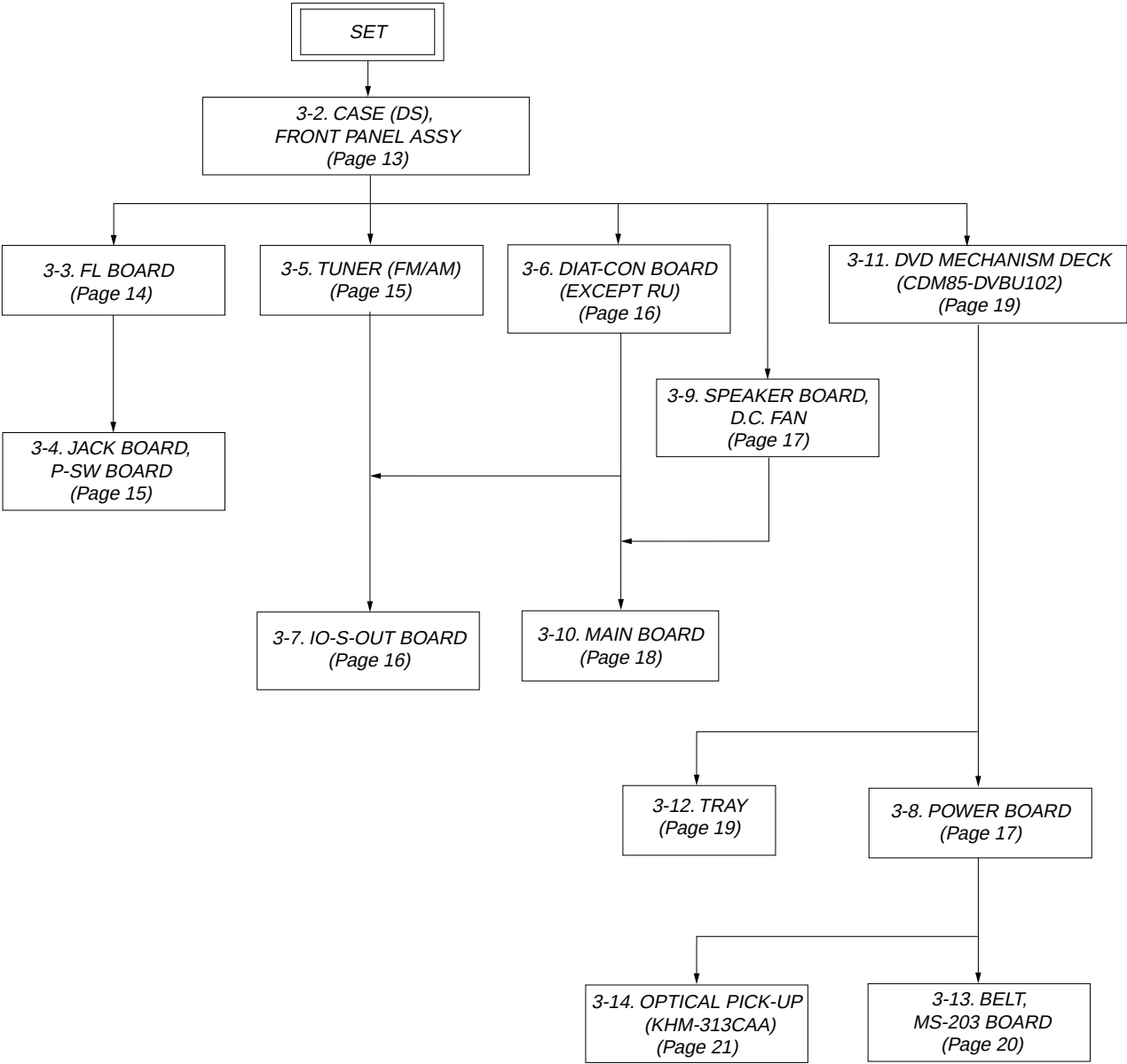


SECTION 3
DISASSEMBLY

3-1. DISASSEMBLY FLOW

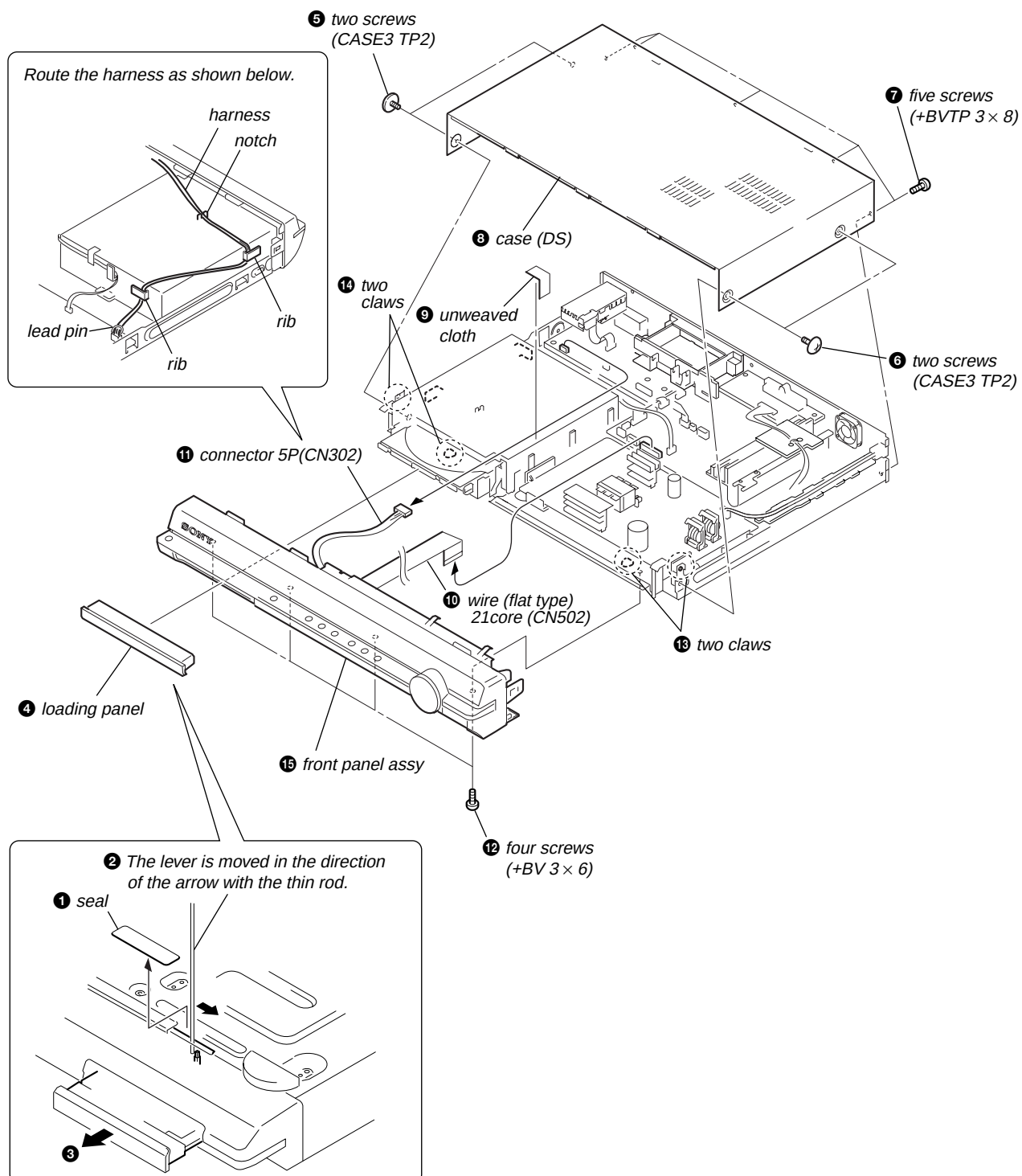
- This set can be disassembled in the order shown below.

- Abbreviation
RU : Russian model

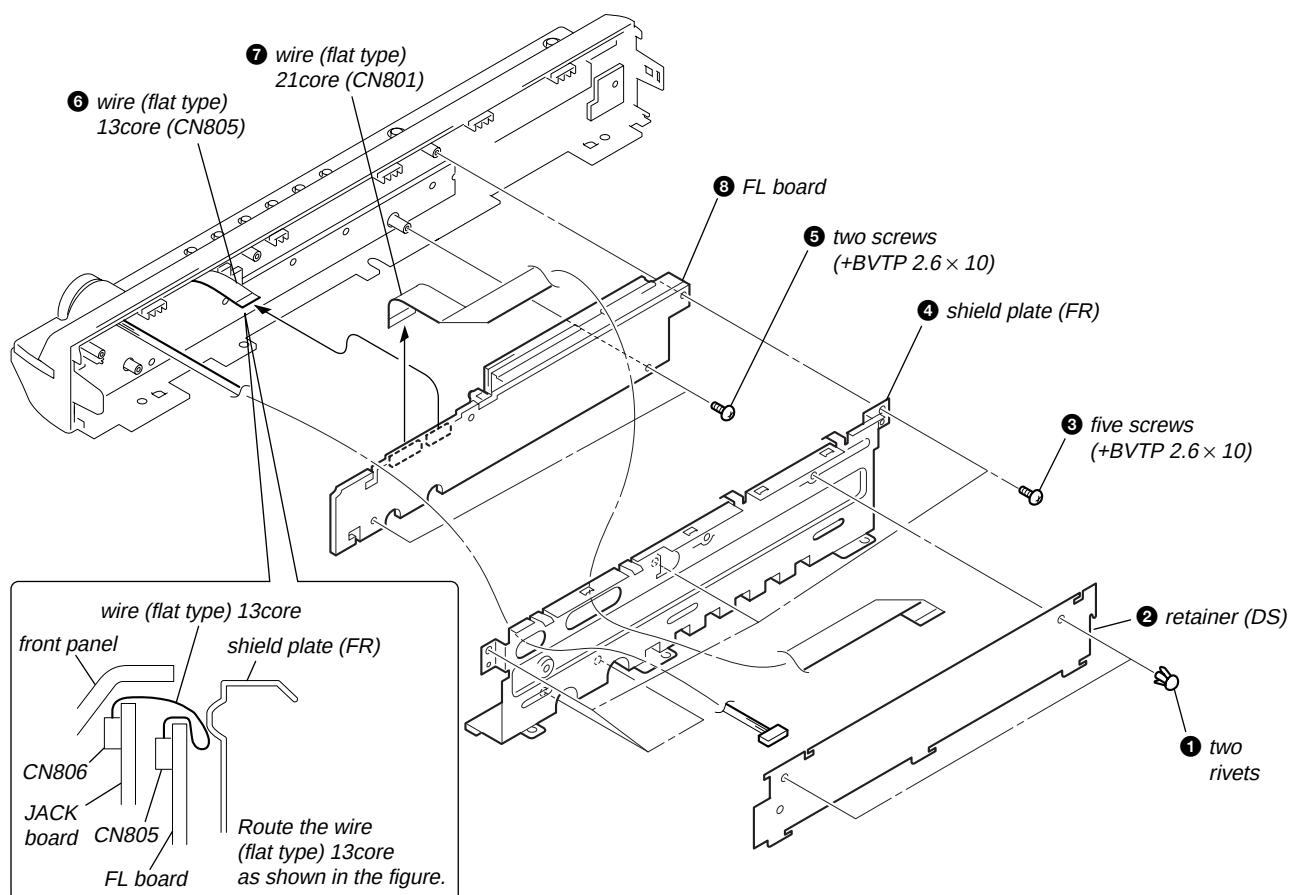


Note: Follow the disassembly procedure in the numerical order given.

3-2. CASE (DS), FRONT PANEL ASSY

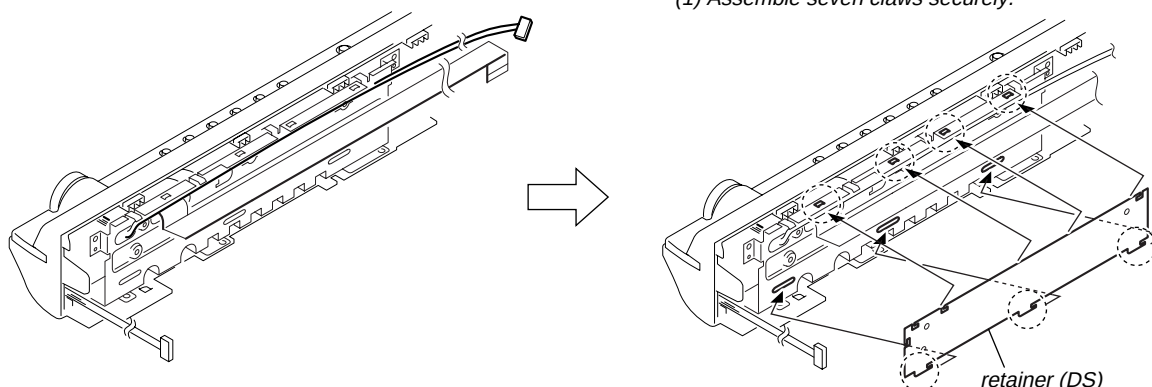


3-3. FL BOARD

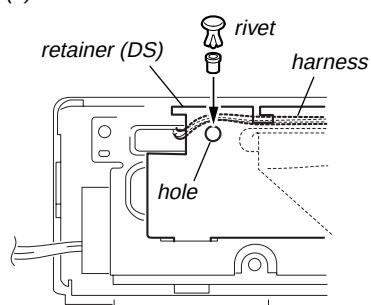


PRECAUTION DURING THE RETAINER (DS) INSTALLATION

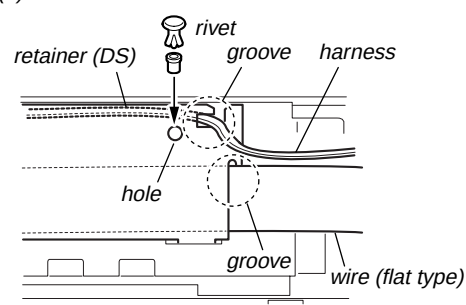
(1) Assemble seven claws securely.



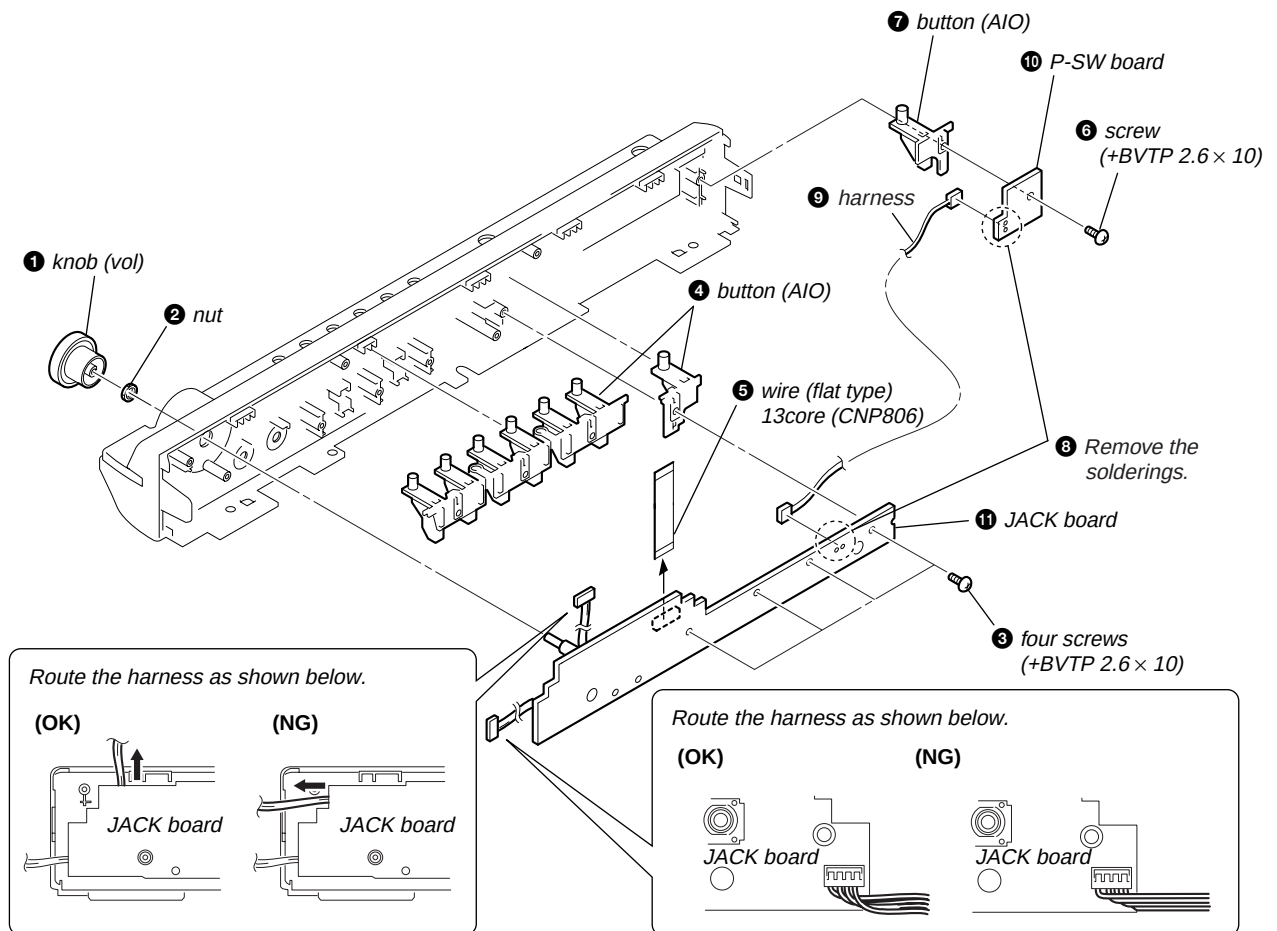
(2) Route the harness as shown below.



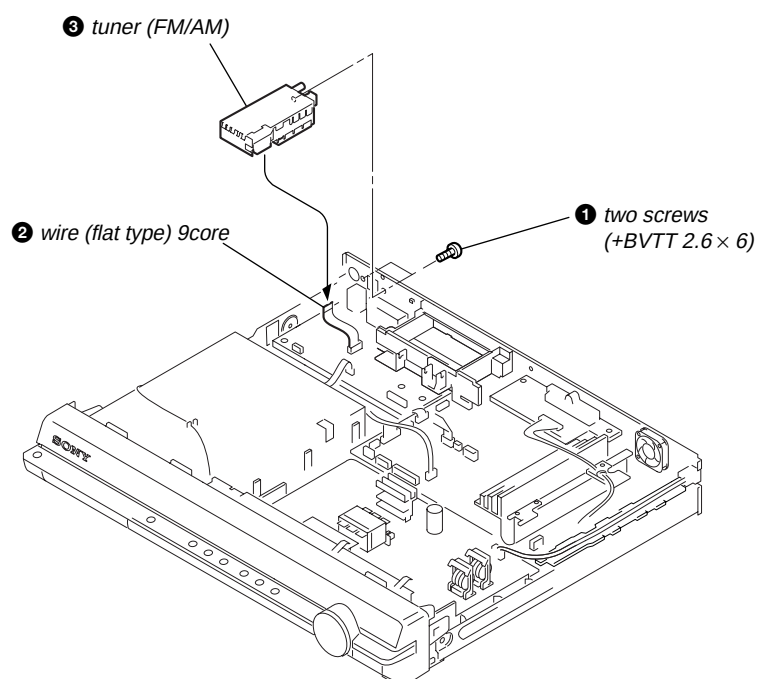
(3) Route the harness as shown below.



3-4. JACK BOARD, P-SW BOARD

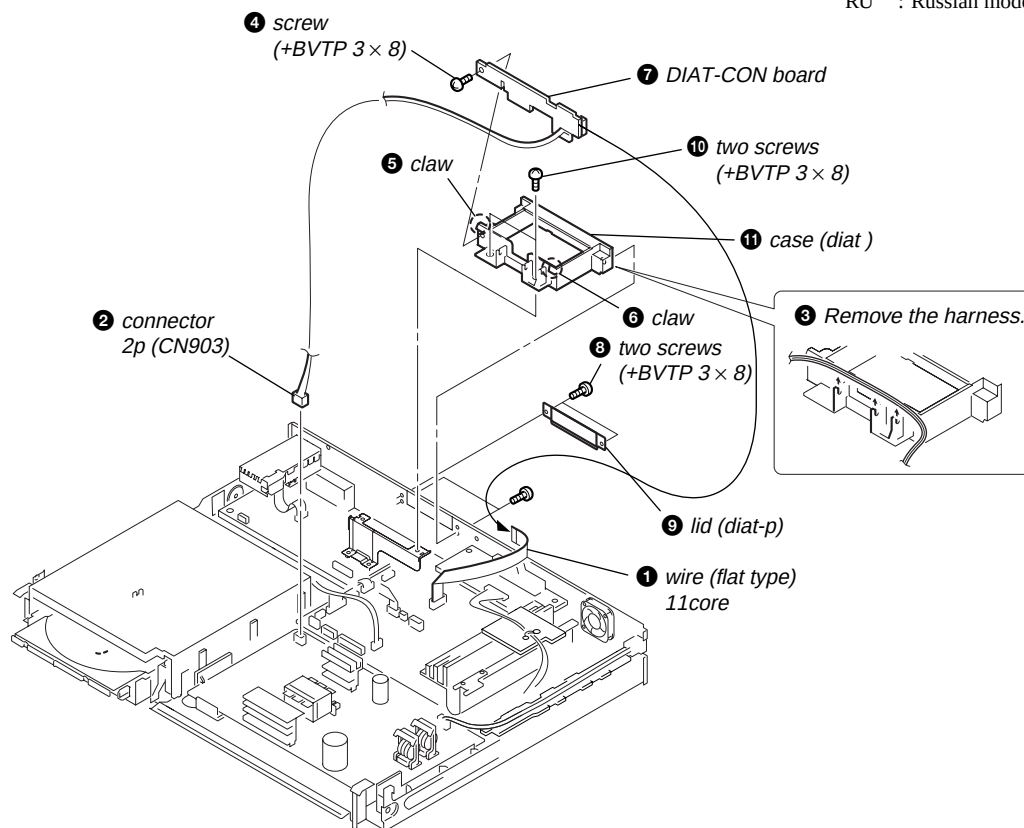


3-5. TUNER (FM/AM)

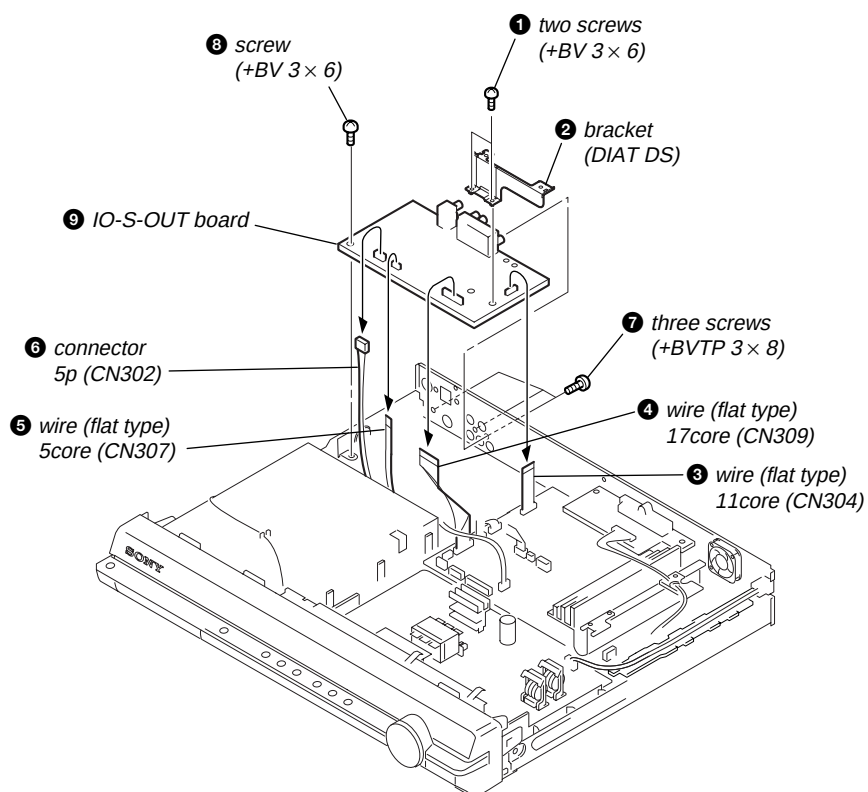


3-6. DIAT-CON BOARD (EXCEPT RU)

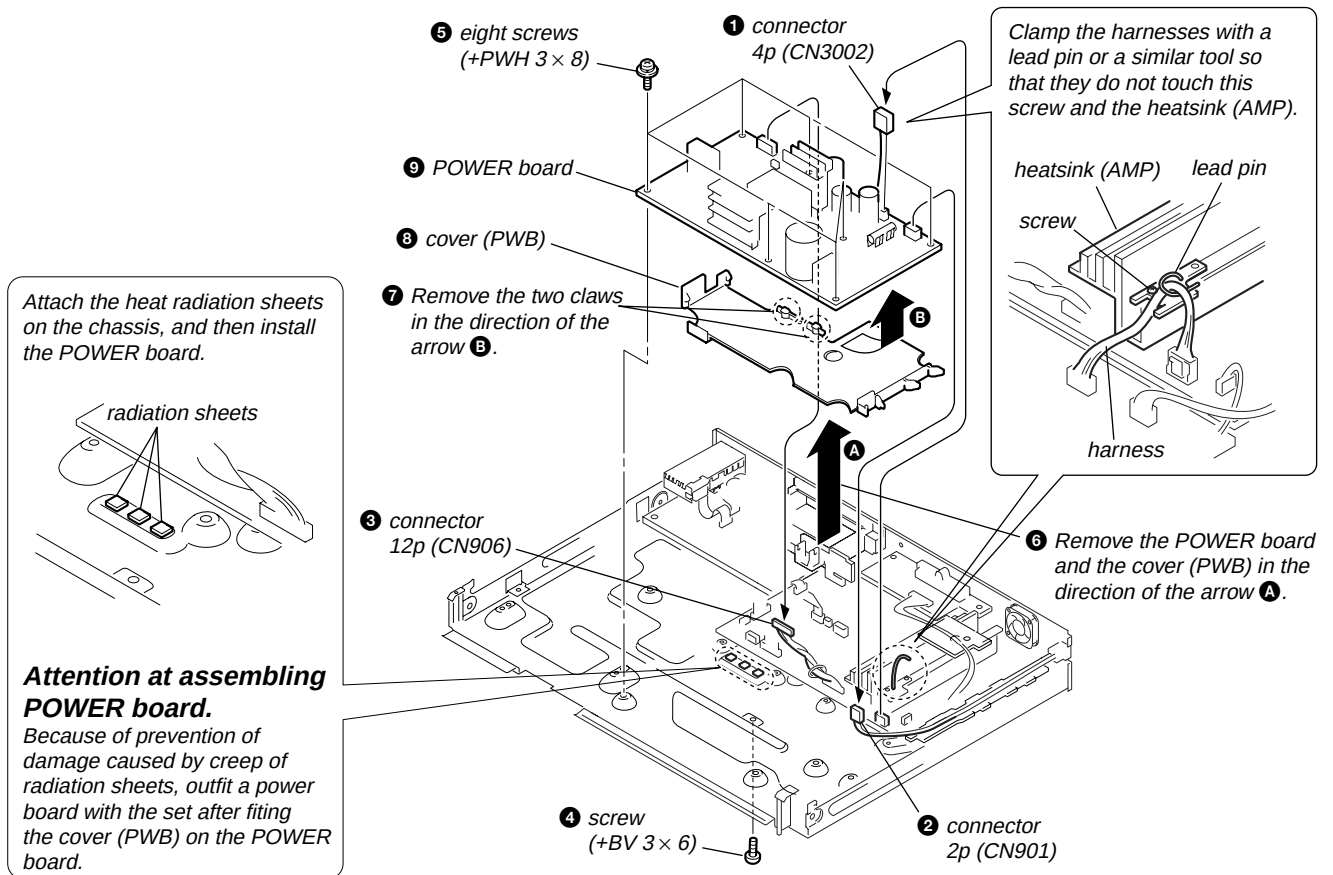
- Abbreviation
RU : Russian model



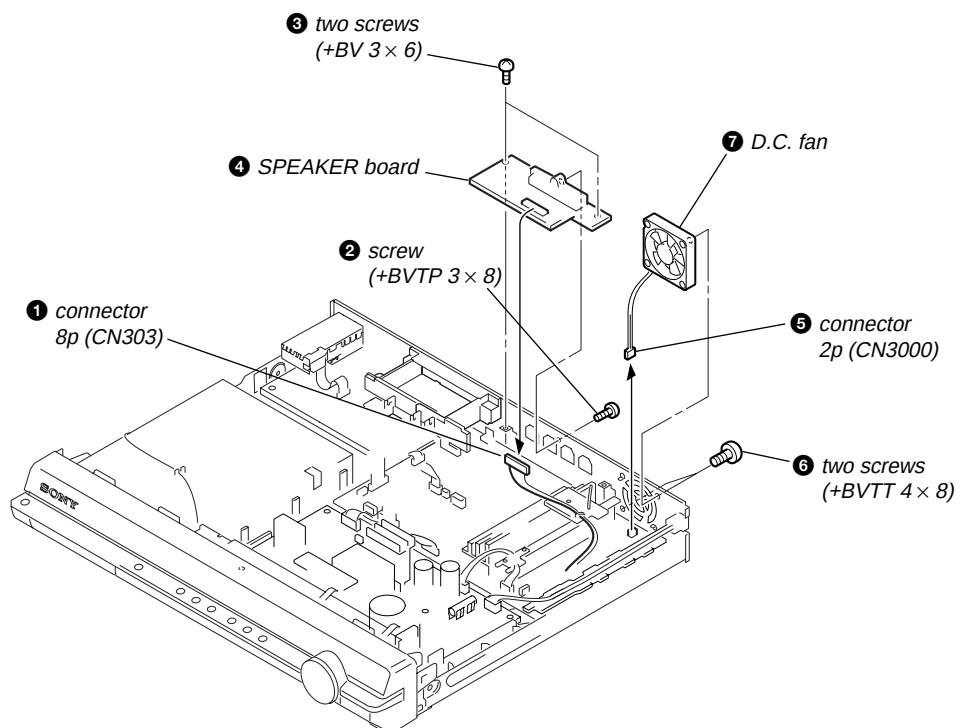
3-7. IO-S-OUT BOARD



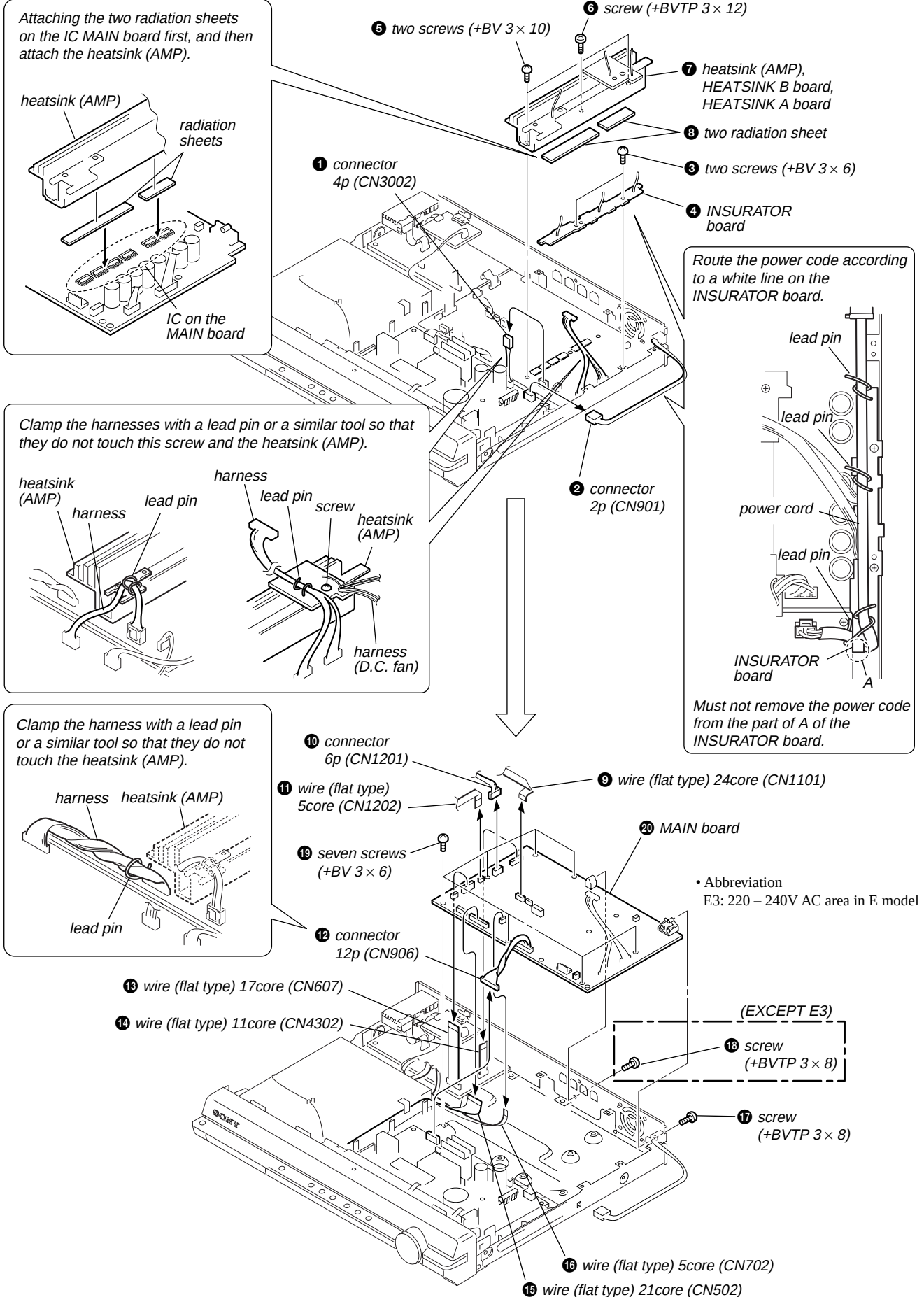
3-8. POWER BOARD



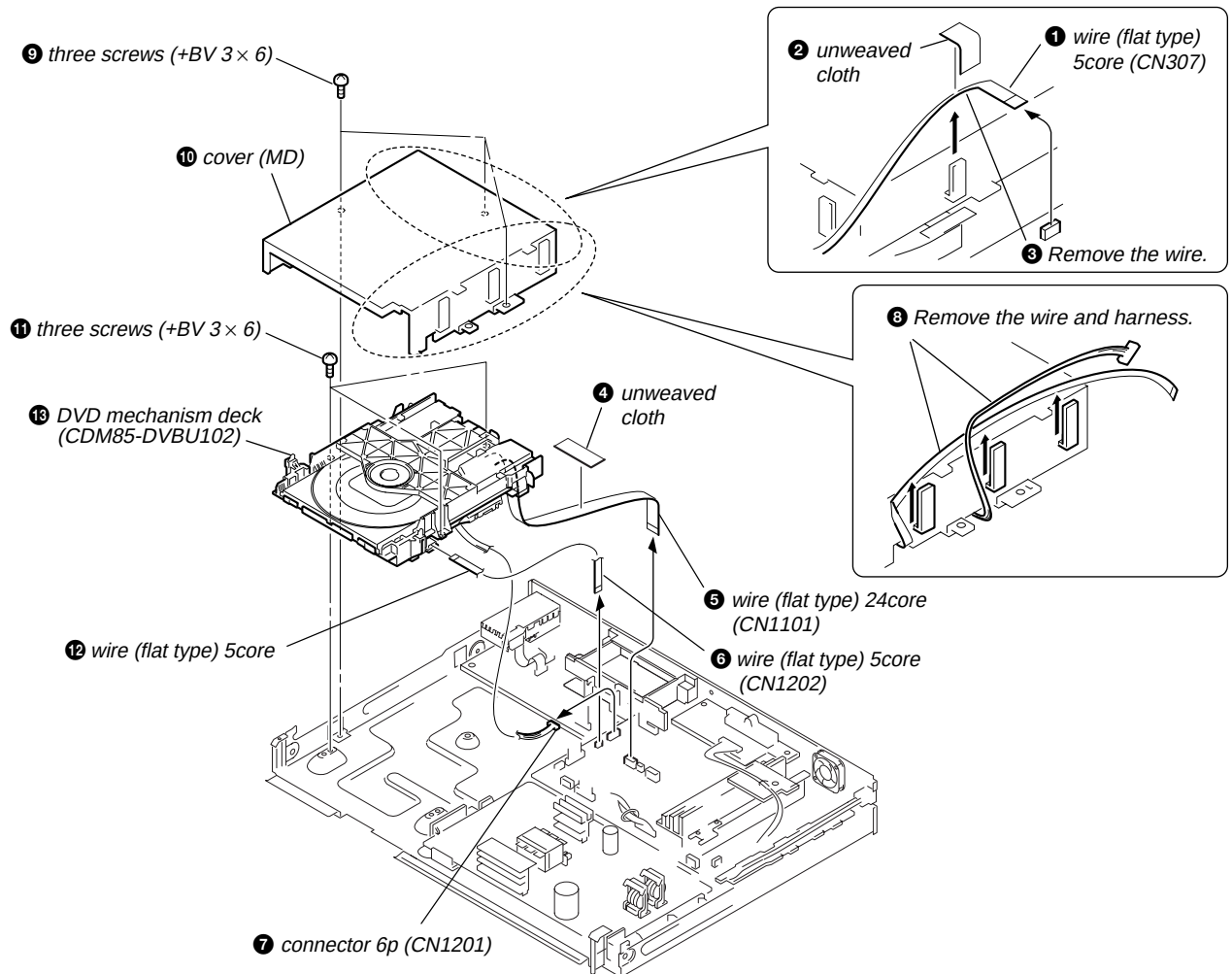
3-9. SPEAKER BOARD, D.C. FAN



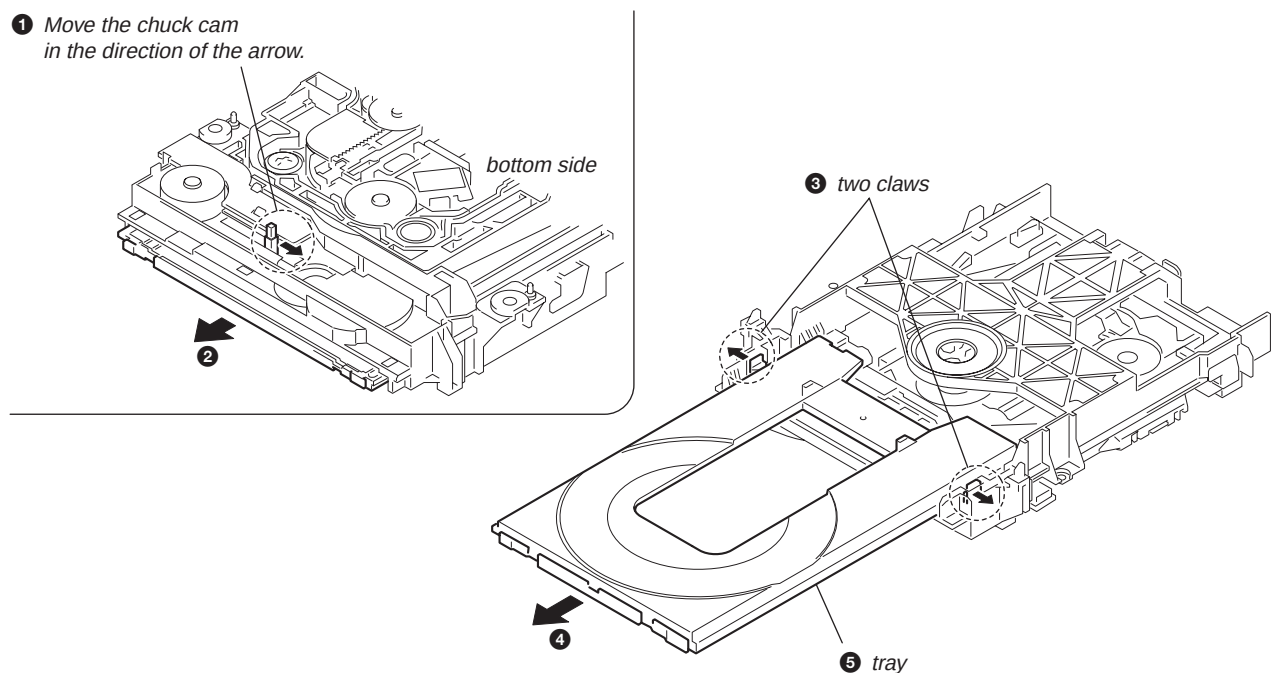
3-10. MAIN BOARD



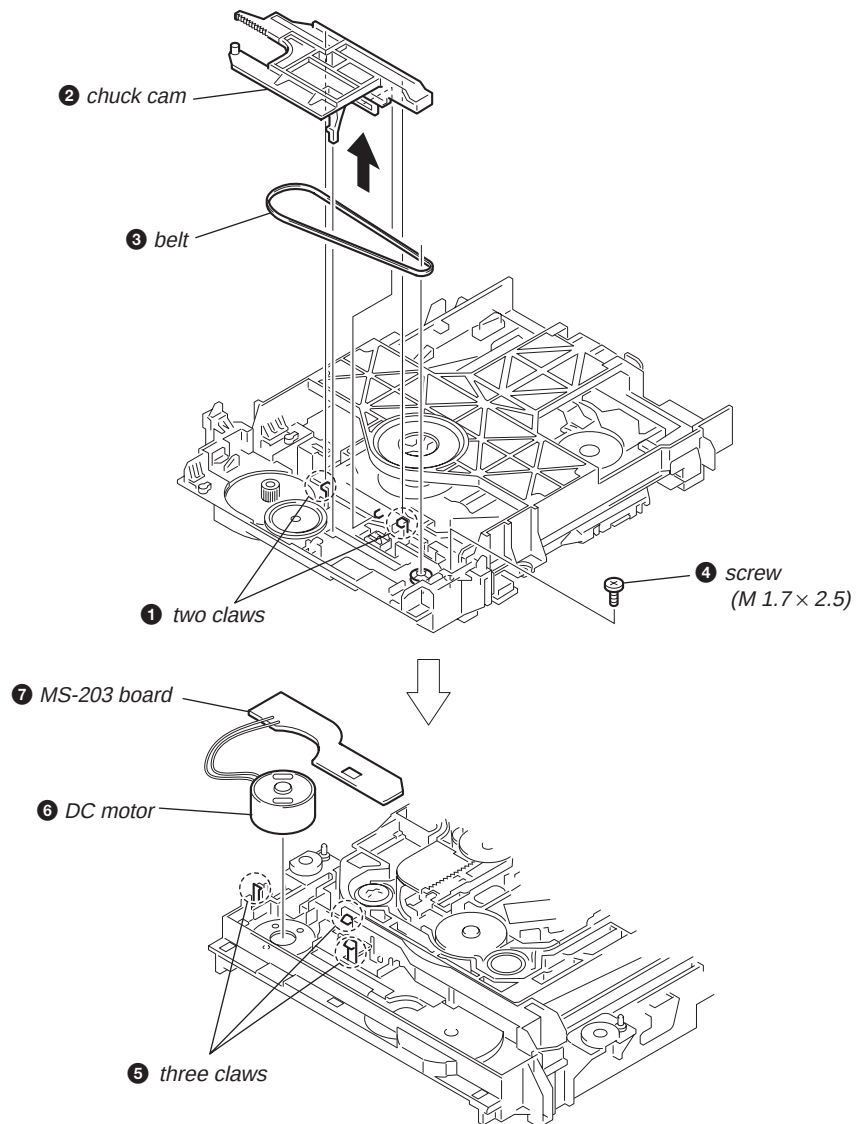
3-11. DVD MECHANISM DECK (CDM85-DVBU102)



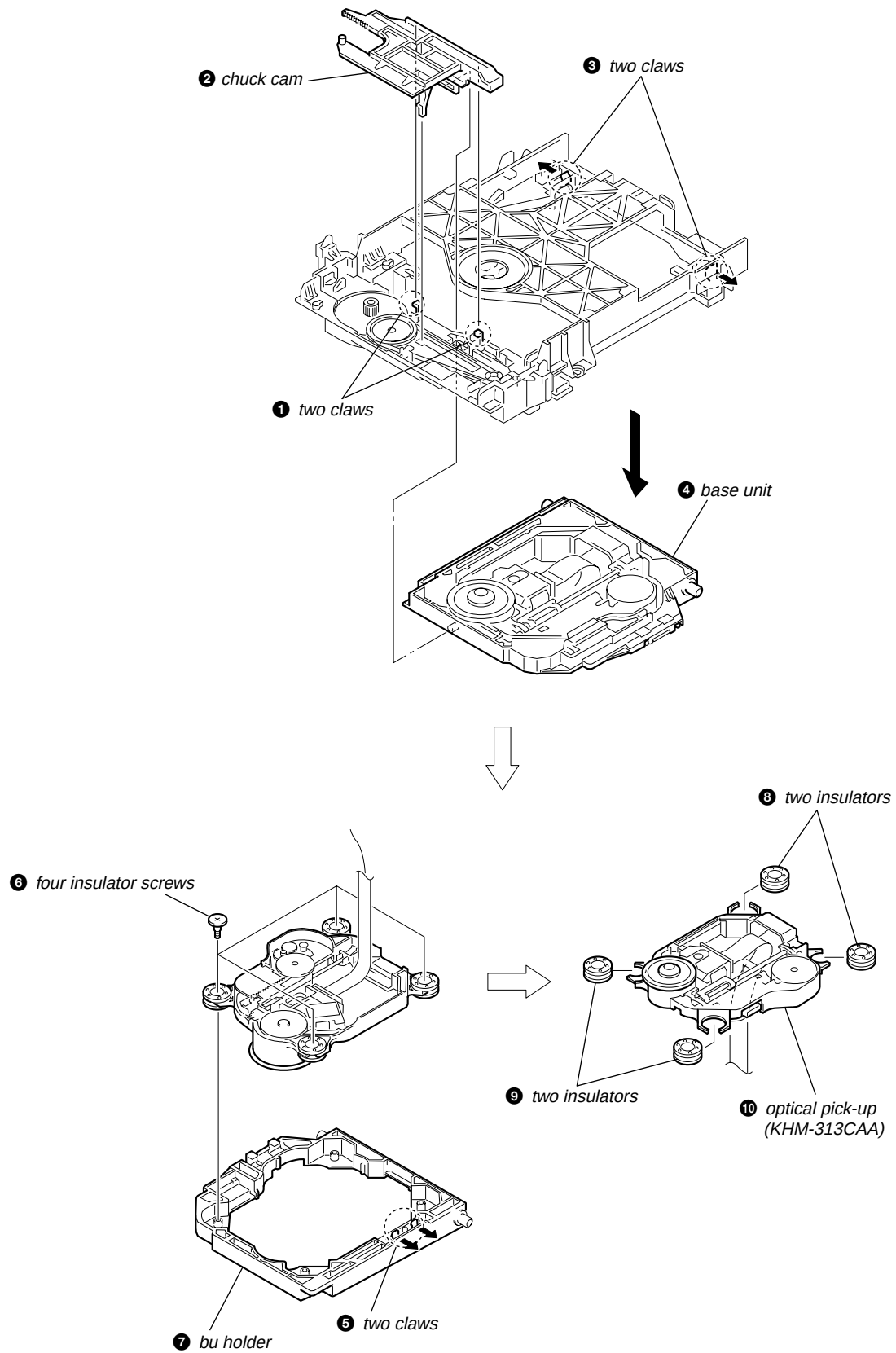
3-12. TRAY



3-13. BELT, MS-203 BOARD



3-14. OPTICAL PICK-UP (KHM-313CAA)



- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customers.

1. Press the button to turn the power on.
2. Press three buttons , and simultaneously.
3. When this button is operated, display as “COLD RESET” for a while and all of the settings are reset.

- This mode is used to check the software version, FL, and KEY.

1. Press the button to turn the power on.
2. Press three buttons , and simultaneously.
3. When the display test mode is activated, all segments are turned on.
4. To exit from this mode, press three buttons , and simultaneously.

1. When the display test mode is activated, press the button and the message “DS1K” is displayed, the version test mode is activated.
2. Whenever the button is pressed, the display changes in the following order.
“DS1K” (Model name) → “ASIA2*1” (Destination) → MC

*1: ASIA2 changes depending on destination.
3. Press the button and the date of the software production is displayed.
4. Press the button again and the version is displayed.
5. To exit from this mode, press three buttons , and simultaneously.

1. When the display test mode is activated, press the button, to select the key test mode.
2. To enter the KEY test mode, the fluorescent indicator displays "K0 V0". Each time an another button is pressed, "KEY" value increases. However, once a button is pressed, it is no longer taken into account. When all keys are pressed correctly, "K8 V0" is displayed.
3. When the control is turned in the direction of (+), "V0" is changed to "V1", then ... "V9". When the control is turned in the direction of (-), "V0" is changed to "V9", then ... "V1".
4. To exit from this mode, press three buttons , and simultaneously.

1. Press the button to turn the power on.
2. Press the button to set DVD function.
3. Insert a disc.
4. Press the button and the button simultaneously for five seconds.
5. The message “LOCKED” is displayed and the tray is locked.

1. Press the button and the button simultaneously for five seconds again.
2. The message “UNLOCKED” is displayed and the tray is unlocked.

1. Press the  button to turn the power on.
2. Press the  button to set the function “DVD”.
3. Remove all discs, and then press two buttons  and  simultaneously.
4. After a message “MECHA LOCK” is displayed on the fluorescent indicator tube, pull out the AC plug.
5. To exit from this mode, press the  button to turn the set on.

1. Press the button to turn the power on.
2. Select the function "TUNER", and press button to select the BAND "AM".
3. Press the button to turn the power off.
4. Press two buttons and simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

1. Press the button to turn the power on.
2. Press the button to set the function “DVD”.
3. Remove all discs, and then press three buttons , and simultaneously.
4. After the “STANDBY” blinking display finishes, the message “MECHA LOCK” is displayed on the fluorescent indicator tube disconnect the AC power plug, then the ship mode is set.

- 22

DVD SECTION

7-1. General Description

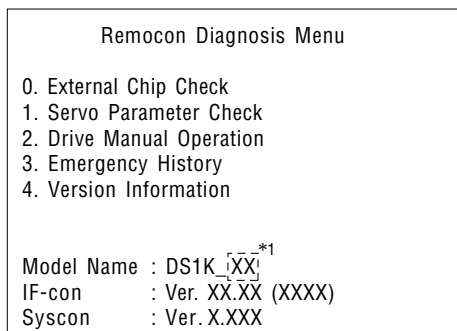
The IOP measurement allows you to make diagnosis and adjustment simply by using the remote commander and monitor TV. The instructions, diagnosis results, etc. are given on the on-screen display (OSD).

Be sure to execute the IOP measurement when a BU (Base Unit) is replaced.

7-2. How to Enter Test Mode

While pressing the  and  buttons simultaneously, turn **VOLUME** control in the direction of (+) with the DVD player in power on.

The Test Mode starts, displayed "SERVICE IN" on this model display then the menu shown below will be displayed on the TV screen.



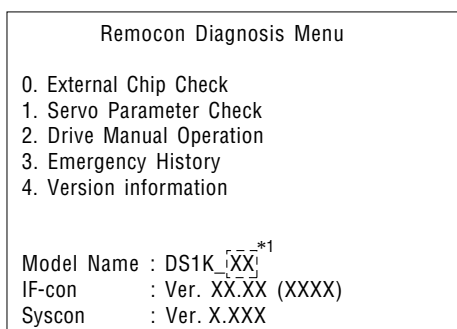
*1: Changes depending on destination

The menu above is the Remocon Diagnosis Menu screen which consists of five main functions. At the bottom of the menu screen, the model name and IF-con version. To exit from the Test Mode, press the power button on the remote commander.

7-3. Executing IOP Measurement

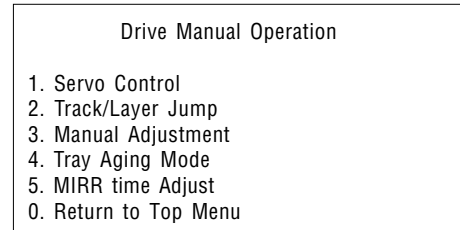
In order to execute IOP measurement, the following standard procedures must be followed.

- (1) In power on, while pressing the  and  buttons simultaneously, turn the **VOLUME** control in the direction of (+).

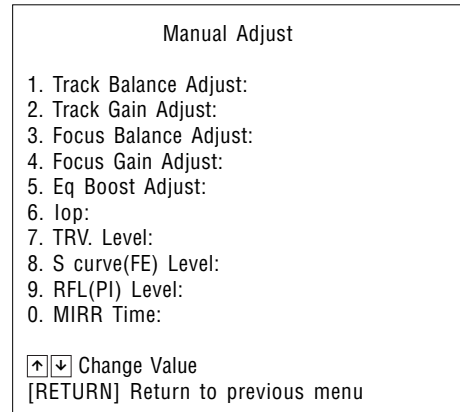


*1: Changes depending on destination

- (2) Select "2. Drive Manual Operation" by pressing the **[2]** button on the remote commander. The screen will appear as shown.

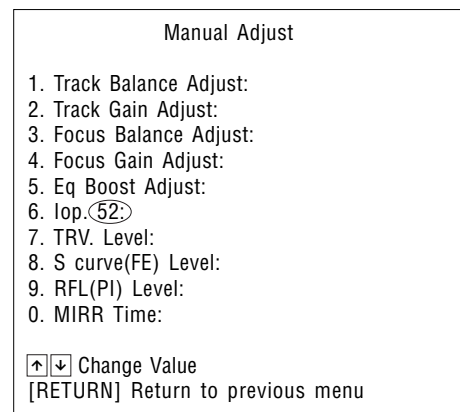


- (3) Select "3. Manual Adjustment" by pressing the **[3]** button on the remote commander. The screen will appear as shown.



- (4) Select "6.IOP" by pressing the **[6]** button on the remote commander.

- (5) Wait until a hexadecimal number appear.



- (6) Convert each data from hexadecimal to decimal using conversion table.
- (7) Please find the label on the rear of the BU (Base Unit).
The default IOP value is written in the label.
- (8) Subtract between these two values.
- (9) If the remainder is smaller than 93 (decimal), then it is OK.
However if the value is higher than 93, then the BU is defective and need to be change.
- (10) Press the **[RETURN]** button on the remote commander to return back to previous menu.
- (11) Press the **[0]** button on the remote commander to return to Top Menu.

7-4. Emergency History

To check the emergency history, please follow the following procedure.

- (1) From the Top Menu of Remocon Diagnosis Menu, select “3. Emergency History Check” by pressing the [3] button on the remote commander. The following screen appears on the on-screen display.

Emg. History Check											
Laser Hours					CD DVD	999h 999h	59min 59min				
01.	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45			
02.	02	02	01	01	00	A9	4B	00			
	00	00	00	00	00	00	23	45			
[Next] Next Page [Prev] Prev Page											
[0] Return to Top Menu											

- (2) You can check the total time when the laser is turned on during playback of DVD and CD from the above menu. The maximum time, which can be displayed are 999h 59min.
- (3) You can check the error code of latest 10 emergency history from the above menu. To view the previous or next page of emergency history, press [◀◀] or [▶▶] button on the remote commander. The error code consists of the following three blocks. The first block indicates the error code. The second block indicates the parameter and the third block indicates the time of error code as shown below.

• Error Code

Emg. History Check											
Laser Hours				CD	999h	59min					
				DVD	999h	59min					
01.	*1	*2									
	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45	*3		
02.	02	02	01	01	00	A9	4B	00			
	00	00	00	00	00	00	23	45			
[Next] Next Page [Prev] Prev Page											
[0] Return to Top Menu											

- *1 : Error Code
- *2 : Parameter of error code
- *3 : Time of error code

The meaning of error code is as below:

- 01: Communication error (No reply from syscon)
- 02: Syscon hung up
- 03: Power OFF request when syscon hung up
- 19: Thermal shutdown
- 24: MoveSledHome error
- 25: Mechanical move error (5 Changer)
- 26: Mechanical move stack error
- 30: DC motor adjustment error
- 31: DPD offset adjustment error
- 32: TE balance adjustment error
- 33: TE sensor adjustment error
- 34: TE loop gain adjustment error
- 35: FE loop gain adjustment error
- 36: Bad jitter after adjustment
- 40: Focus NG
- 42: Focus layer jump NG

- 52: Open kick spindle error
- 51: Spindle stop error
- 60: Focus on error
- 61: Seek fail error
- 62: Read Q data/ID error
- 70: Lead in data read fail
- 71: TOC read time out (CD)
- 80: Can't buffering
- 81: Unknown media type

7-4-1. Clear the Laser Hour

Press [DISPLAY] button and then press [CLEAR] button on the remote commander. The data for both CD and DVD data are reset.

Emg. History Check											
Laser Hours					CD	0h	0min				
					DVD	0h	0min				
01.	01	05	04	04	00	92	46	00			
	00	00	00	00	00	00	23	45			
02.	02	02	01	01	00	A9	4B	00			
	00	00	00	00	00	00	23	45			
[Next] Next Page [Prev] Prev Page											
[0] Return to Top Menu											

7-4-2. Clear the Emergency History

Press [DVD TOP MENU] button and then press [CLEAR] button on the remote commander. The error code for all emergency history would be reset.

Emg. History Check													
Laser Hours				CD DVD	999h 999h	59min 59min							
01.	00	00	00	00	00	00	00	00	00				
	00	00	00	00	00	00	00	00	00				
02.	00	00	00	00	00	00	00	00	00				
	00	00	00	00	00	00	00	00	00				
[Next] Next Page [Prev] Prev Page													
[0] Return to Top Menu													

7-4-3. Clear the Initialize Setup Data

Press [DVD MENU] button and then press [CLEAR] button on the remote commander.

Emg. History Check			
Laser Hours	CD	999h	59min
	DVD	999h	59min
initialize setup data...			
[Next] Next Page [Prev] Prev Page			
[0] Return to Top Menu			

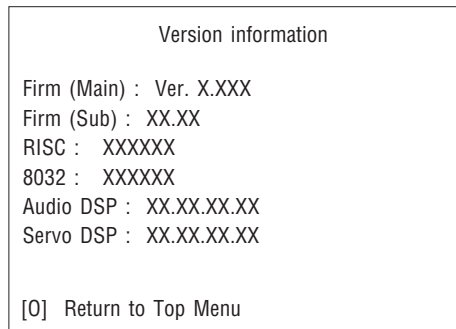
7-4-4. Return to the Top Menu of Remocon Diagnosis Menu

Press button on the remote commander.

• Check Version Information

To check the version information, please follow the following procedure.

- (1) From the Top Menu of Remocon Diagnosis Menu, select “4. Version Information” by pressing the button on the remote commander. The following screen appears on the on-screen display.

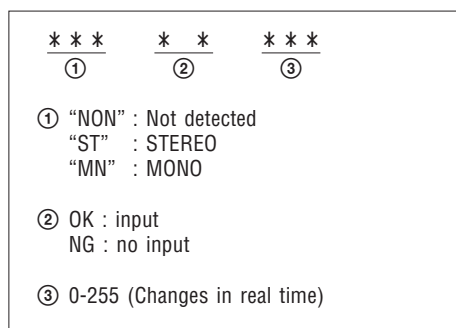


To return to the Top Menu of Remocon Diagnosis Menu, press button on the remote commander.

7-5. Automatic Acoustic Field Calibration Microphone Test Mode

Procedure:

1. Press the button to turn the power on.
2. Press the button to set the function “DVD”.
3. Insert ECM-AC2 supplied as an accessory into the AUDIO IN/MIC 1/A.CAL MIC jack.
4. While pressing the and buttons simultaneously, turn the control in the direction of (+) .
5. Confirm that the following are shown on the display panel.
 - ① The JACK inserted/non-inserted detection display and the STEREO/MONO detection display.
 - ② Presence of DIGITAL voice input to the microcomputer. (OK: input, NG: no input)
 - ③ The value of the MIC input to the microcomputer. (shown “255h”)



8. Demo Play Out

It is a mode to release the demonstration reproducing by the dedicated demonstration disc.

1. During playback the DEMO Disc, press the and buttons for five seconds simultaneously.
2. The message “DEMO OFF” is displayed, a mode to reproduce the demonstration is released.

9. Protection Factor (SD Detection/DC Detection) Identification Test Mode

When an error is detected, the FL tube alternately displays “PROTECTOR PUSH POWER”.

↓ Press the button.

* Buttons other than the button are invalid.

“STANDBY” blinks three times on the FL tube.

↓

The protection release state (POWER OFF) is established.

(No FL tube display)

↓ Press the button.

The power to the system turns on, and the normal operation is established. (Restore)

During the protection state:

1. If the AC plug is connected or disconnected during the protection state, the protection state is released, and the normal operation is established. (The protection state is not maintained.)
2. The protection factor is displayed by pressing the , and buttons at the same time during the protection state (during the “PROTECTOR PUSH POWER” display).
 - ⇒ When SD is detected: Repeats “SD DETECT PUSH POWER”.
 - ⇒ When DC is detected: Repeats “DC DETECT PUSH POWER”.

PL: SD detection

When the “L” output from the SD (shutdown) port on the S-MASTER POWER Driver is detected, the power system other than that of the FL tube is turned off, and the protection state is established.

DC detection

When the “L” output from the power/speaker error detection circuit (DC detection port) is detected for two seconds continually, the power system other than that of the FL tube is turned off, and the protection state is established.

10. Color System Change-over (Except Mexican and Latin American models)

It is a mode to switch the color system (PAL/NTSC).

Procedure:

1. Press the button to turn the power on
2. Press the button to set the function “DVD”.
3. Press the button to turn the power off.
4. While pressing the button, press the button simultaneously.
5. Each time you perform this operation the color system toggles between PAL and NTSC. “NTSC” lights up in the front display when “NTSC” is selected.

SECTION 5 ELECTRICAL ADJUSTMENT

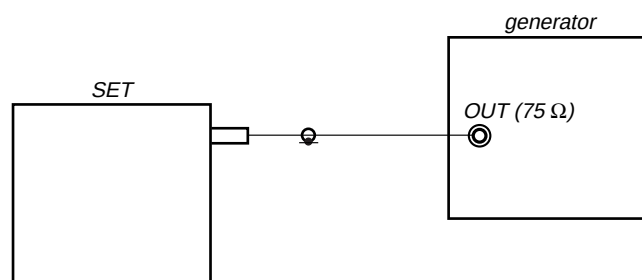
DVD SECTION

When the optical pick-up assy is replaced, perform the “EXECUTING IOP MEASUREMENT”.

EXECUTING IOP MEASUREMENT (See page 23)

TUNER SECTION

[FM Tune Level Check]



Procedure:

1. Turn on the set.
2. Input the following signal from Signal Generator to FM antenna input directly.

* Carrier Freq : A = 87.5 MHz, B = 98 MHz, C = 108 MHz
Deviation : 75 kHz
Modulation : 1 kHz
ANT input : 35 dBu (EMF)

Note: Please use 75 ohm “coaxial cable” to connect SG and the set. You cannot use video cable for checking.
Please use SG whose output impedance is 75 ohm.

3. Set to FM tuner function and tune A, B and C signals.
4. Confirm “TUNED” is lit on the display for A, B and C signals.

The mark of “TUNED” means “The selected station signal is received in good condition.”

SECTION 6

DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.

- Note:
- All capacitors are in μF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
 - $\triangle$: internal component.
 - : panel designation.

Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

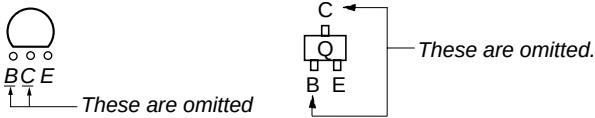
- — : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- no mark : DVD STOP
- * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 M Ω).
- Circled numbers refer to waveforms.
- Signal path.
 - ➡ : AUDIO
 - ➡ : CD PLAY
 - ➡ : DVD PLAY
 - ➡ : TUNER
 - ➡ : VIDEO
 - ➡ : Y
 - ➡ : CHROMA
 - ➡ : COMPONENT VIDEO
 - ➡ : AUDIO IN
- Abbreviation
 - AUS : Australian model
 - AR : Argentine model
 - E3 : 220 – 240V AC area in E model
 - E12 : 220 – 240V AC area in E model
 - E32 : 110 – 240V AC area in E model
 - EA : Saudi Arabia model
 - KR : Korean model
 - MX : Mexican model
 - RU : Russian model
 - SP : Singapore model
 - TW : Taiwan model

For Printed Wiring Boards.

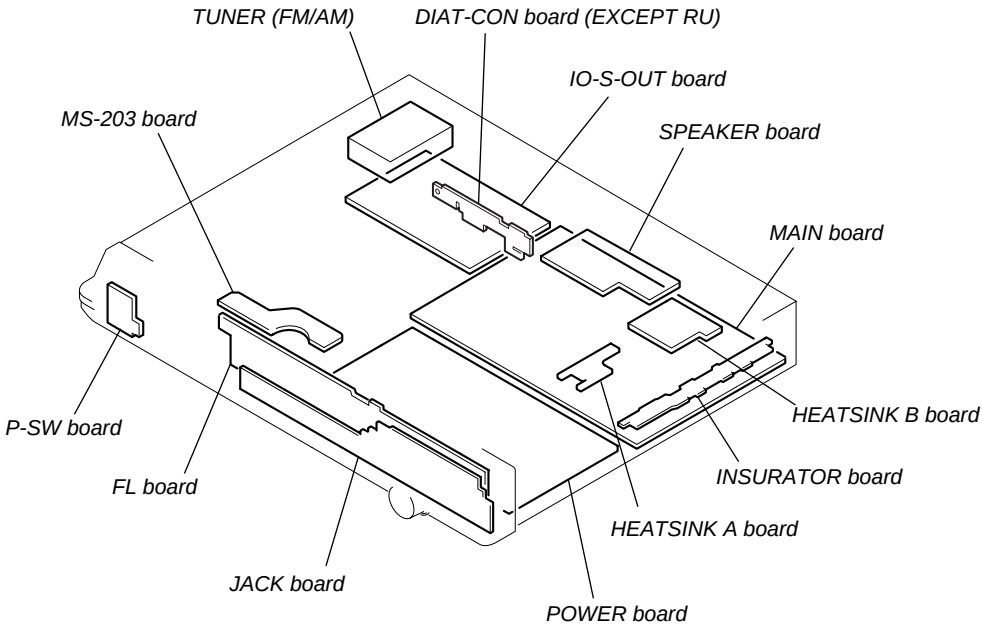
- Note:
- — : parts extracted from the component side.
 - $\bigcirc$: Through hole.
 - : Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

Caution:
Pattern face side: Parts on the pattern face side seen from (SIDE B) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (SIDE A) the parts face are indicated.

- Indication of transistor.

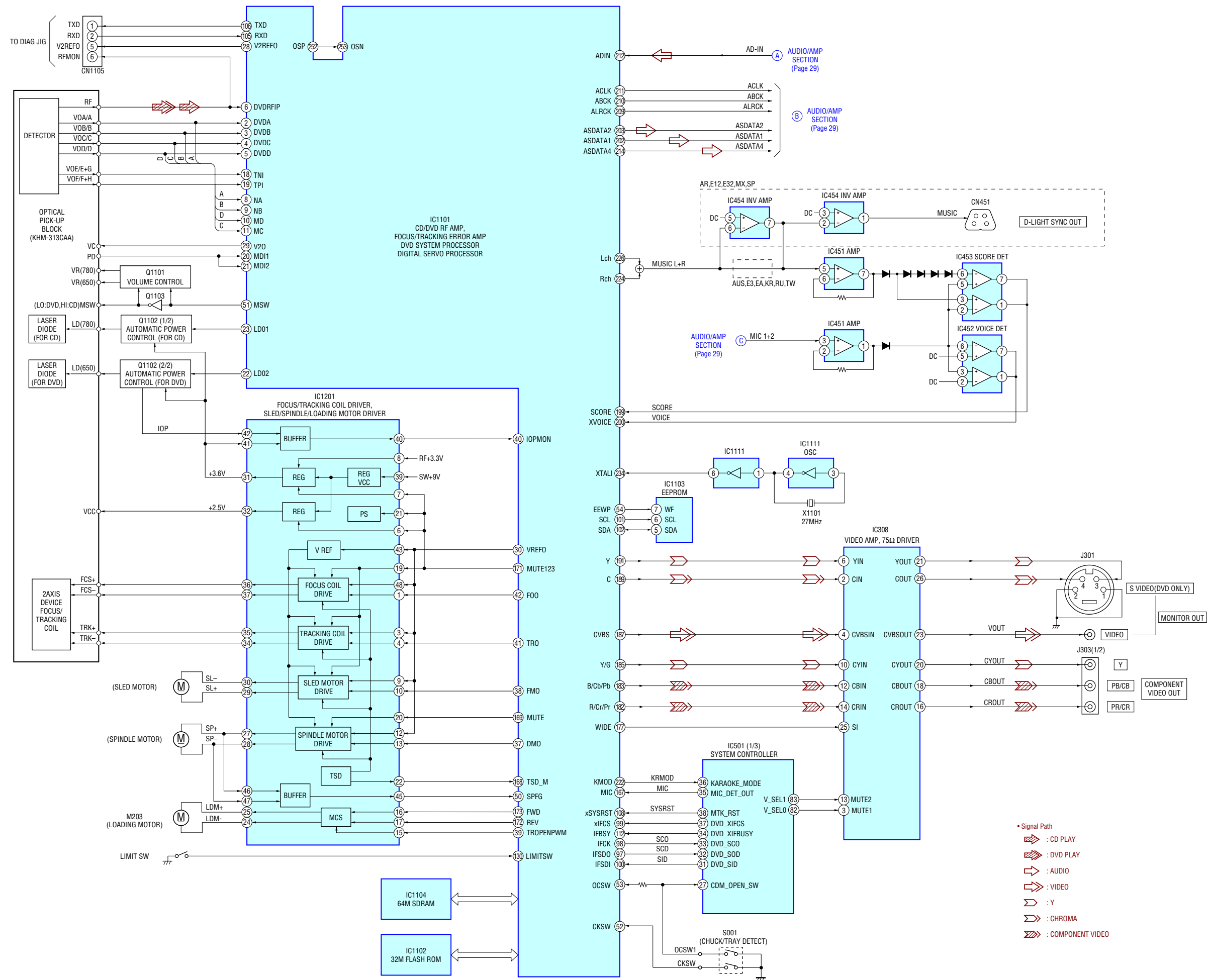


• Circuit Boards Location

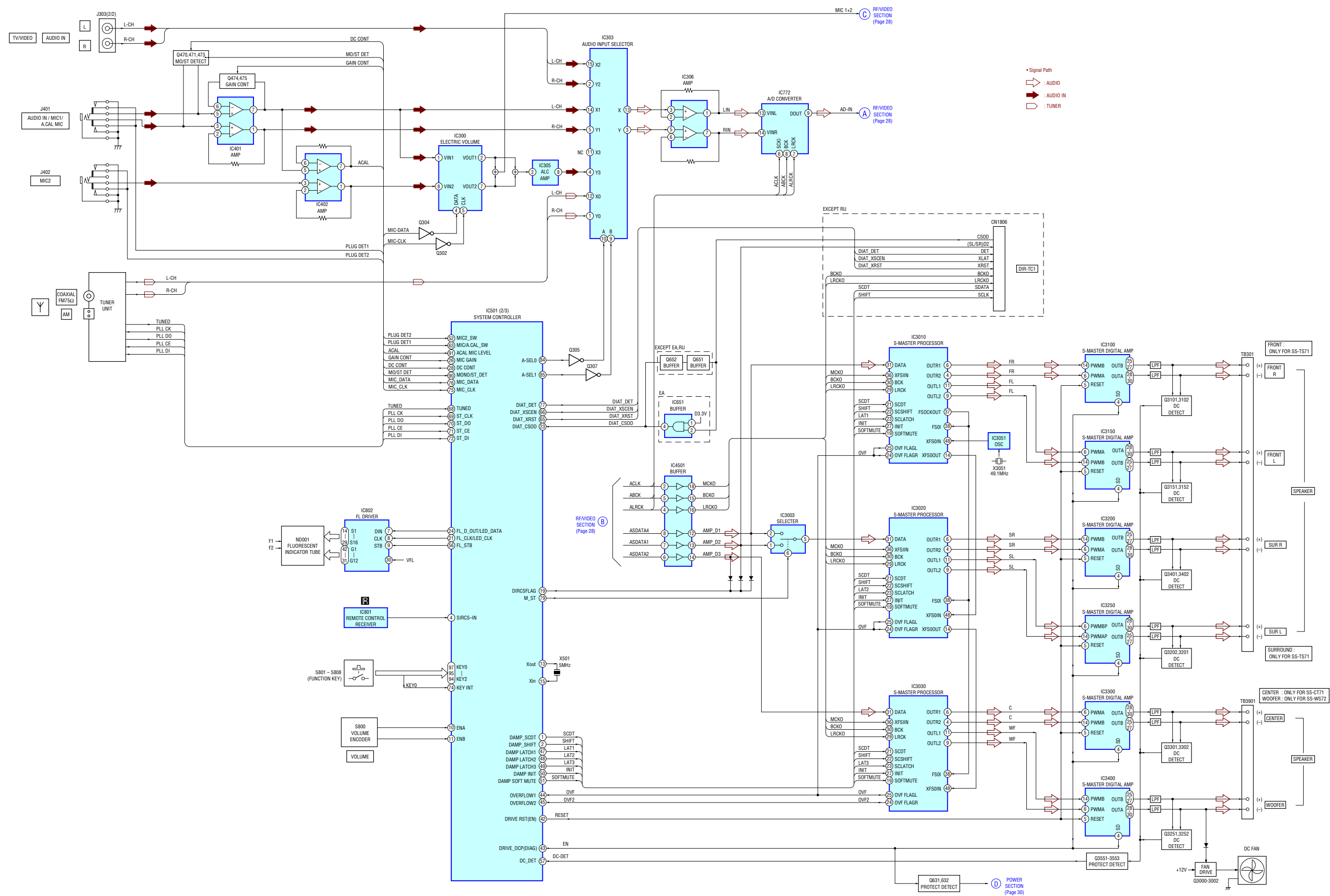


HCD-DZ150K/DZ151KB
Ver. 1.2

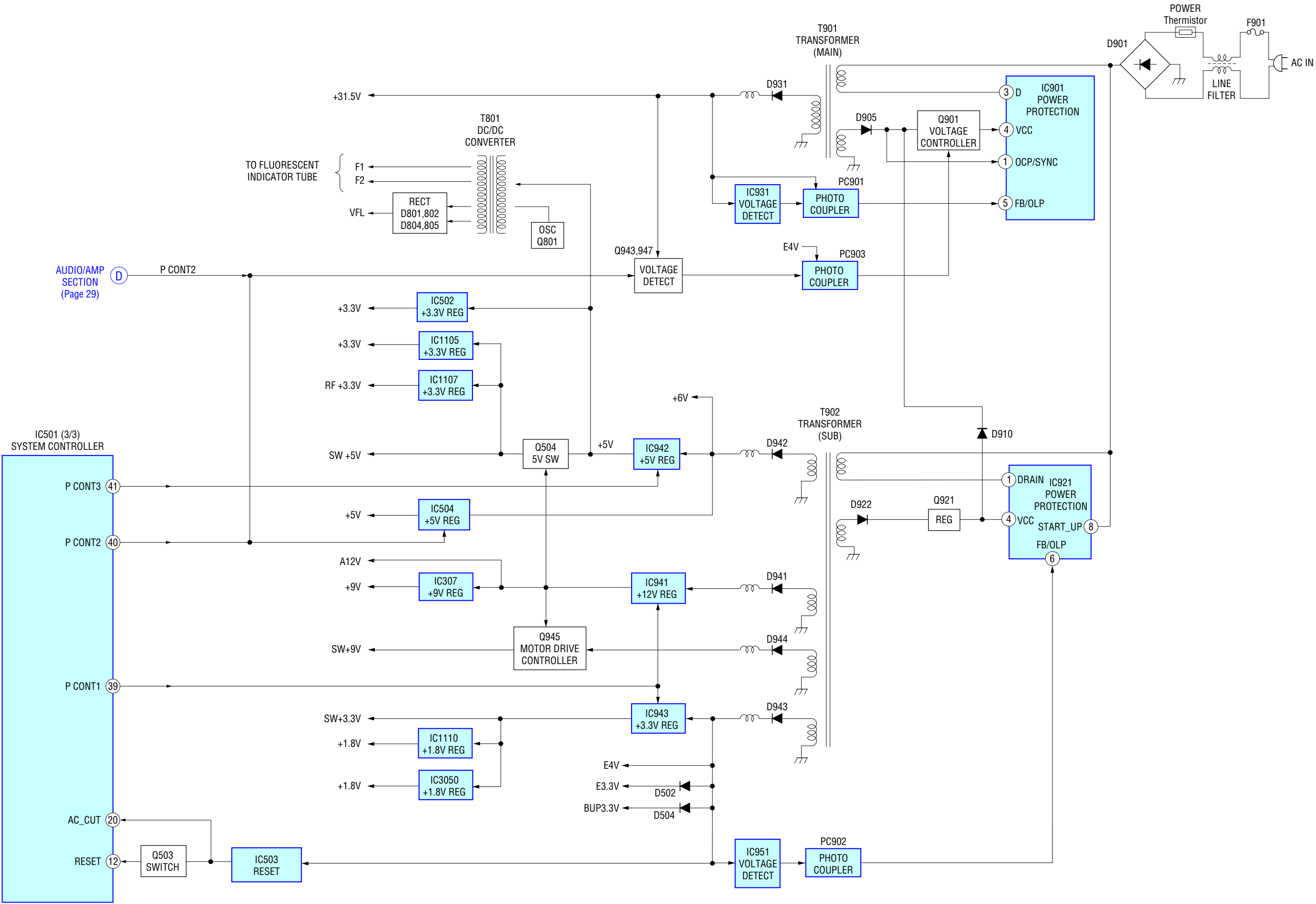
6-1. BLOCK DIAGRAM – RF/VIDEO SECTION –



6-2. BLOCK DIAGRAM – AUDIO/AMP SECTION –



6-3. BLOCK DIAGRAM – POWER SECTION –

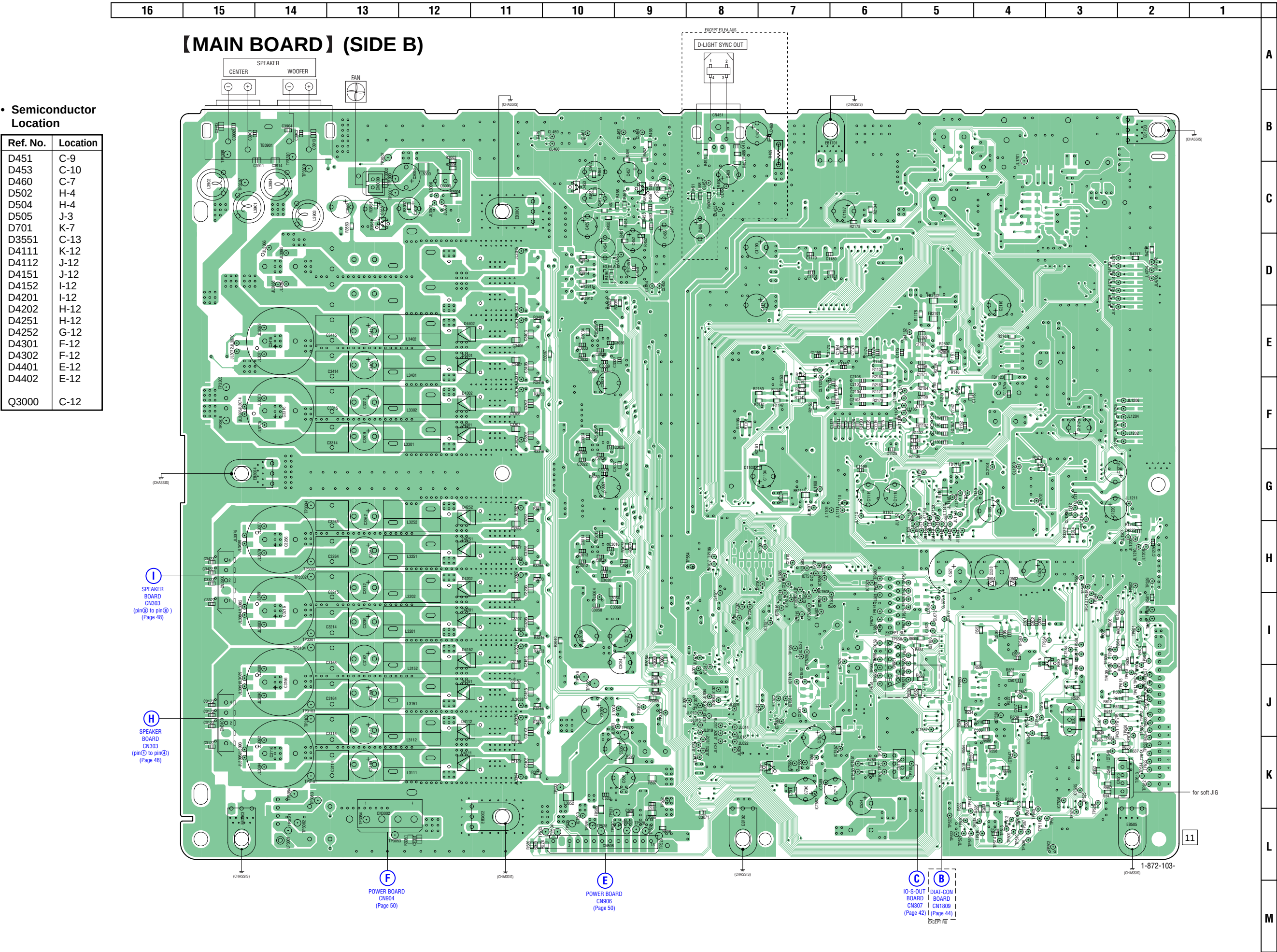


- See page 27 for Circuit Boards Location.

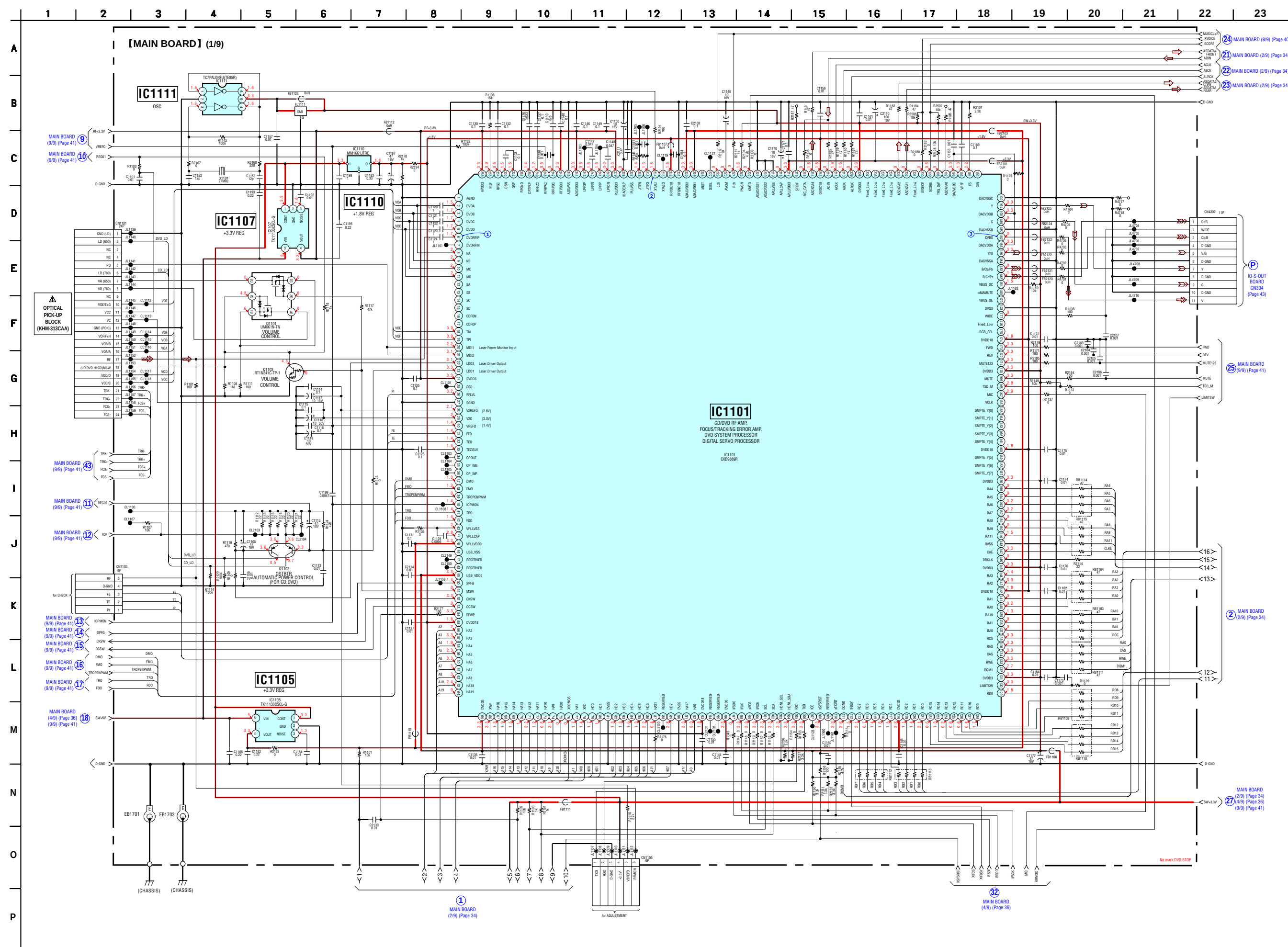
:Uses unleaded solder.



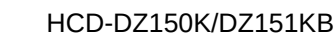
Ref. No.	Location
D455	C-10
D456	C-10
D501	J-3
D3071	I-9
D3072	I-9
D3073	I-9
IC451	C-9
IC452	B-9
IC453	B-10
IC454	C-8
IC501	J-4
IC502	K-5
IC503	I-3
IC504	L-5
IC651	I-5
IC772	K-6
IC1101	F-6
IC1102	F-8
IC1103	E-8
IC1104	D-6
IC1105	F-3
IC1107	E-3
IC1110	C-6
IC1111	F-5
IC1201	G-3
IC3003	H-9
IC3010	H-10
IC3020	F-10
IC3030	E-10
IC3050	J-9
IC3051	H-10
IC3100	K-11
IC3150	J-11
IC3200	I-11
IC3250	H-11
IC3300	F-11
IC3400	E-11
IC4501	H-8
Q503	J-3
Q504	K-9
Q631	K-10
Q632	J-10
Q1101	G-6
Q1102	G-4
Q1103	G-6
Q3001	C-12
Q3002	C-12
Q3101	I-15
Q3102	I-15
Q3151	J-15
Q3152	J-15
Q3201	H-15
Q3202	H-15
Q3251	E-15
Q3252	F-15
Q3301	F-15
Q3302	F-15
Q3401	G-15
Q3402	G-15
Q3551	C-14
Q3552	C-14
Q3553	C-13



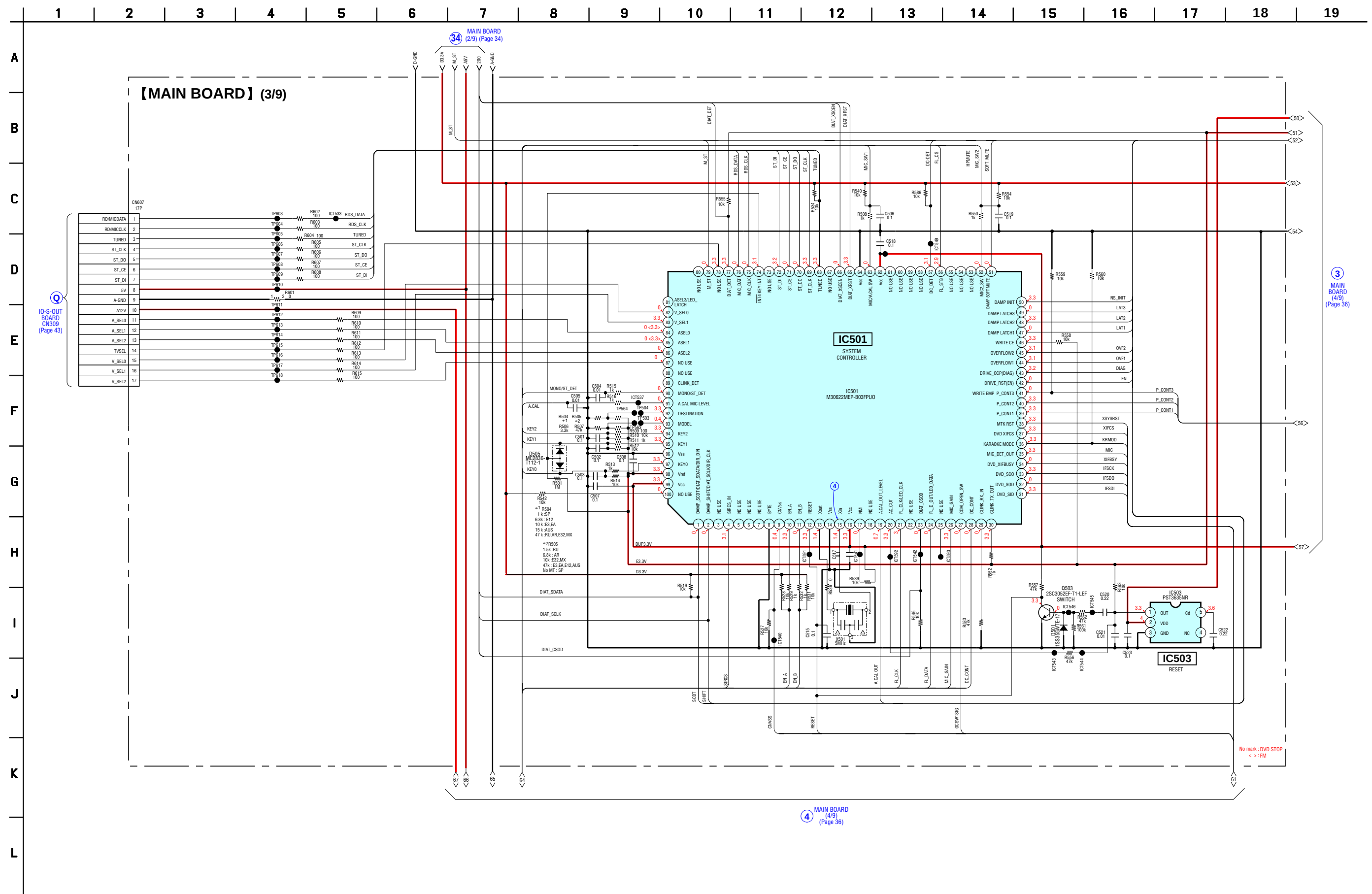
6-6. SCHEMATIC DIAGRAM – MAIN BOARD (1/9) – • See page 52 for Waveforms. • See page 57 for IC Pin Function Description.

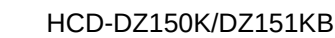


Ver. 1.1
6-7. SCHEMATIC DIAGRAM – MAIN BOARD (2/9) – • See page 52, 54 for IC Block Diagrams.

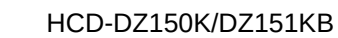


6-8. SCHEMATIC DIAGRAM – MAIN BOARD (3/9) – • See page 52 for Waveform. • See page 62 for IC Pin Function Description.

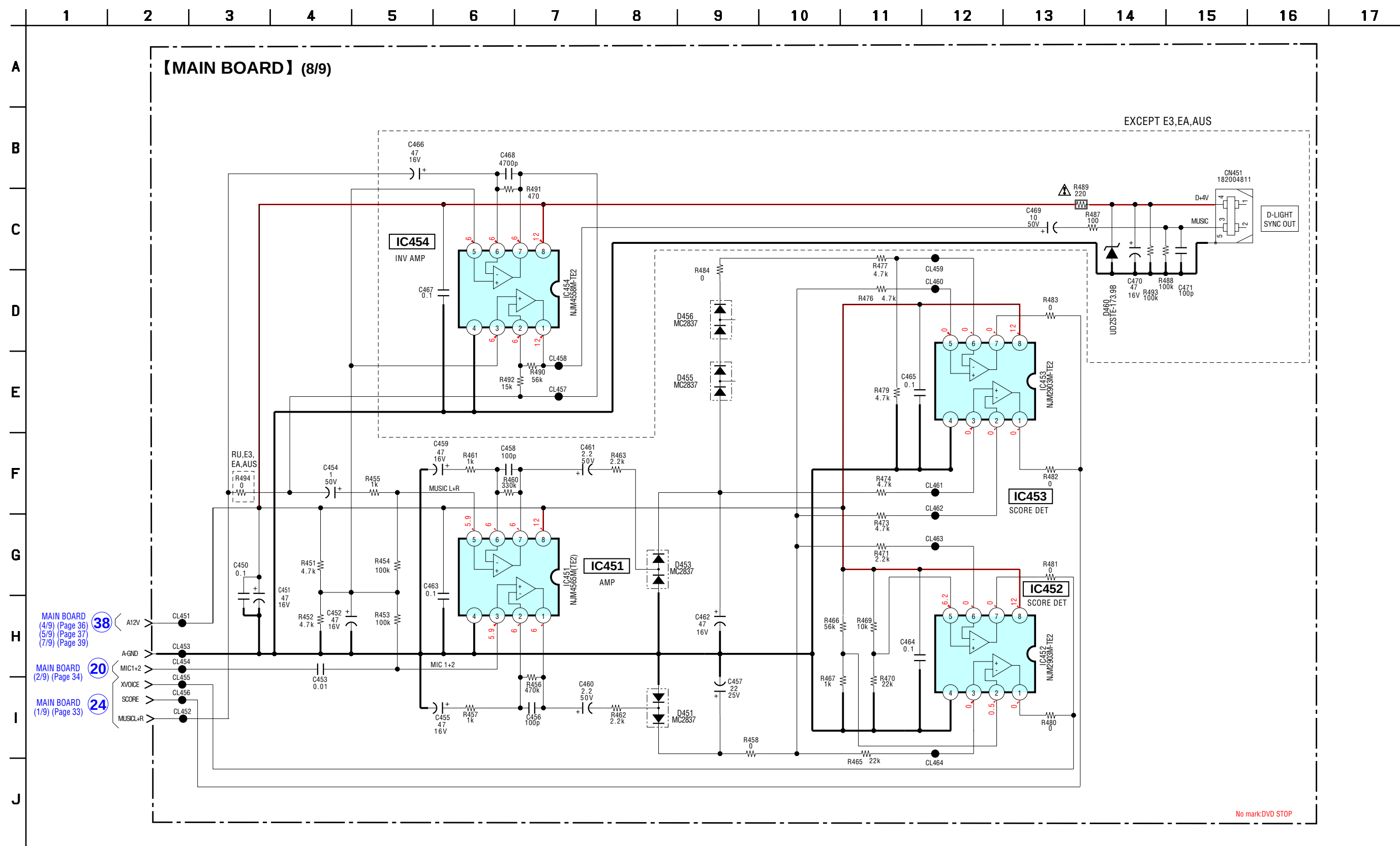






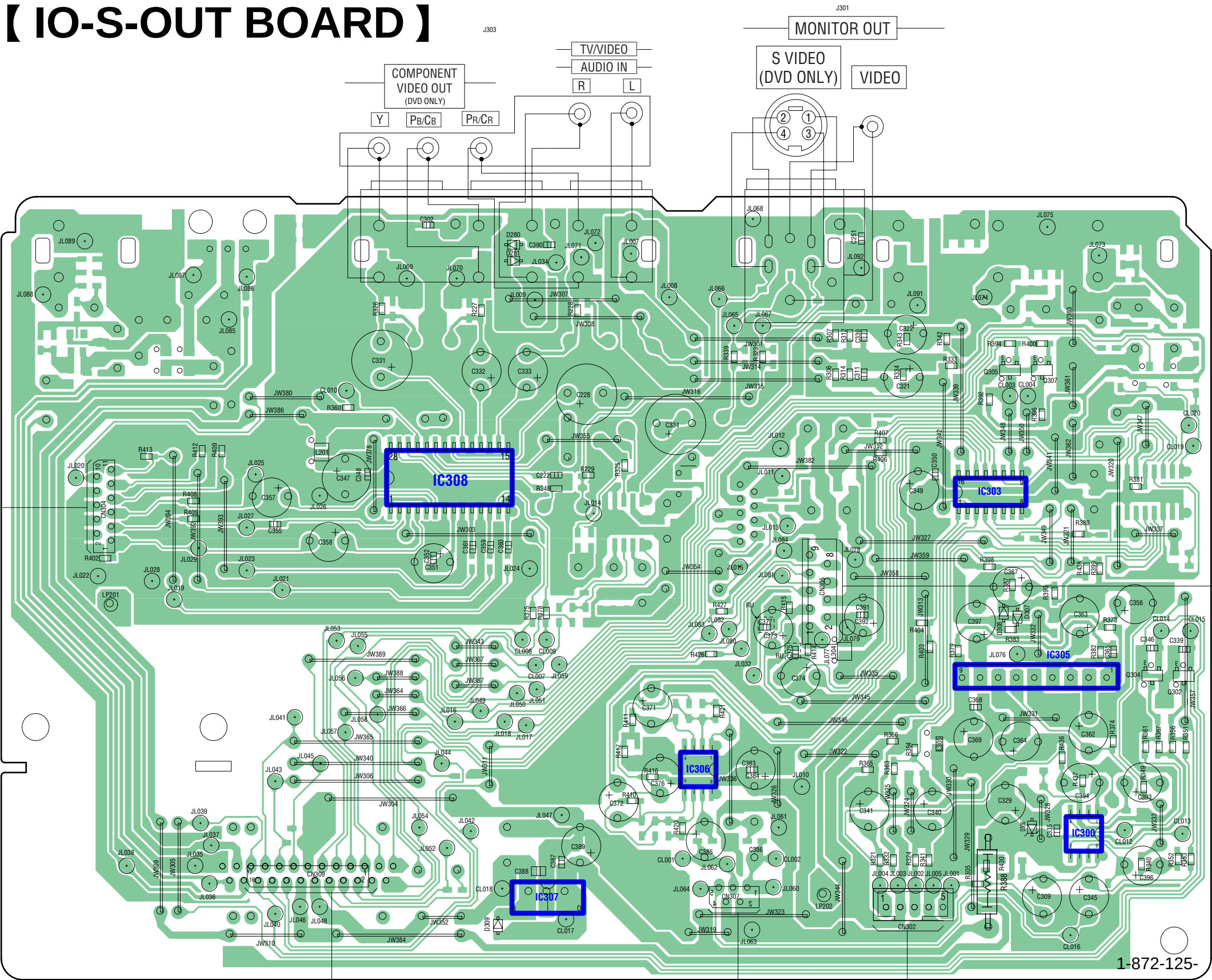








【 IO-S-OUT BOARD 】



• Semiconductor Location

Ref. No.	Location
D280	D-9
D281	D-9
D306	L-15
D307	I-15
D308	I-15
D309	M-8
IC300	L-16
IC303	G-15
IC305	J-16
IC306	K-11
IC307	L-9
IC308	G-8
Q302	J-17
Q304	J-17
Q305	E-15
Q307	E-15

1-872-125-

11

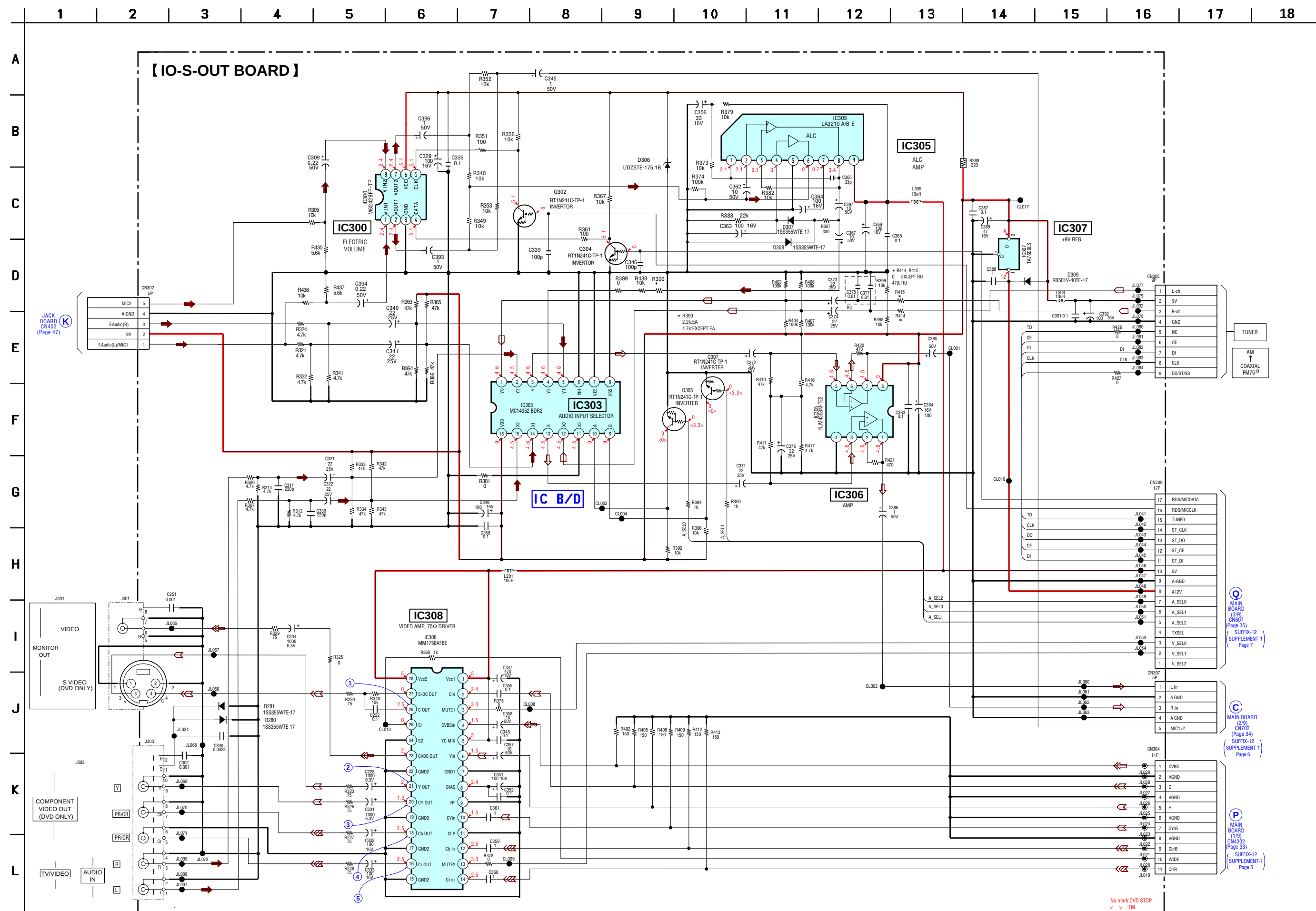
(11)

Q MAIN BOARD CN607 (Page 31) SUFFIX-12 SUPPLEMENT-1 Page 3

C MAIN BOARD CN702 (Page 32) SUFFIX-12 SUPPLEMENT-1 Page 4

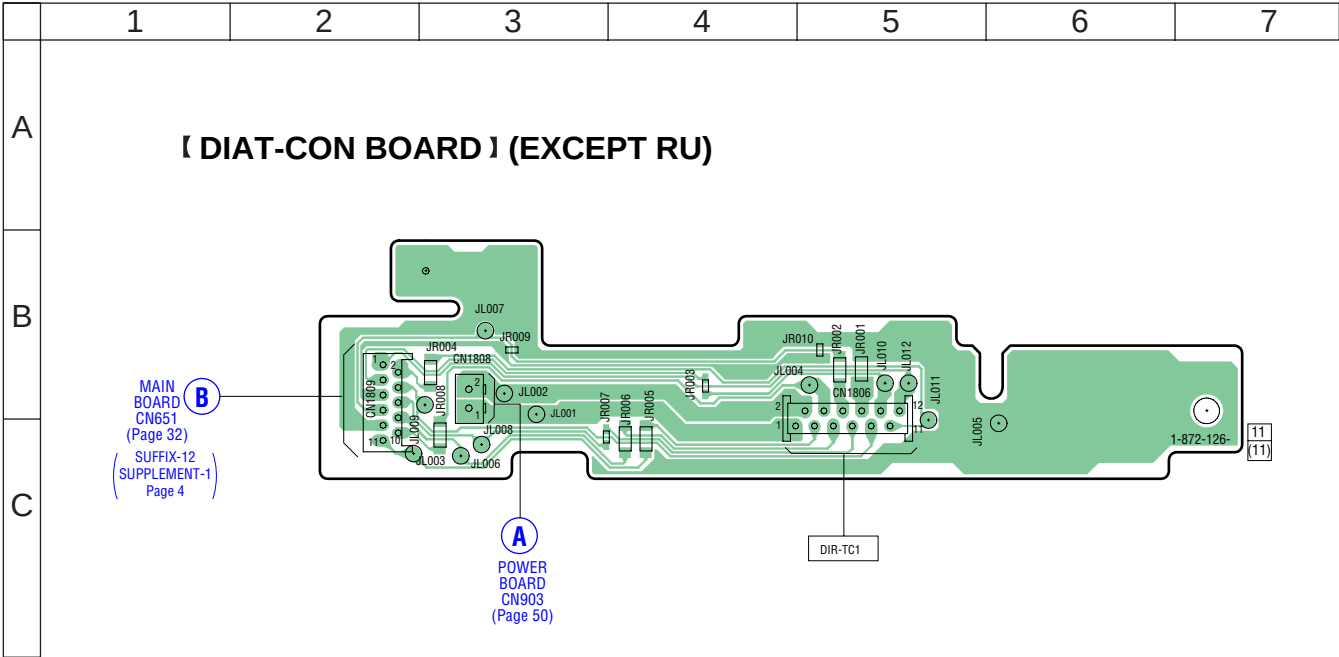
K JACK BOARD CN402 (Page 45)

6-16. SCHEMATIC DIAGRAM – IO-S-OUT BOARD – • See page 52 for Waveforms. • See page 54 for IC Block Diagram.

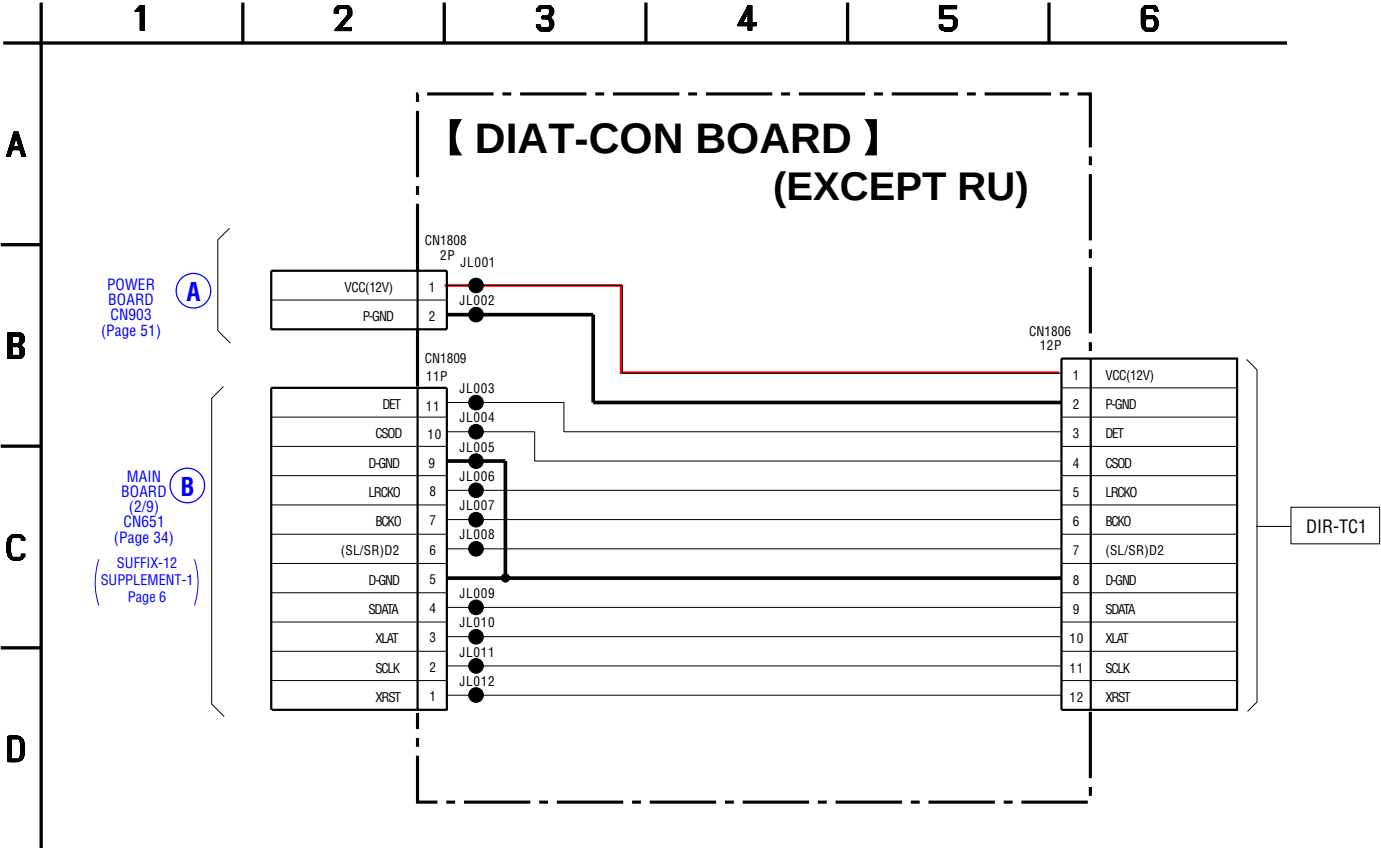


6-17. PRINTED WIRING BOARD – DIAT-CON BOARD (EXCEPT RU) –

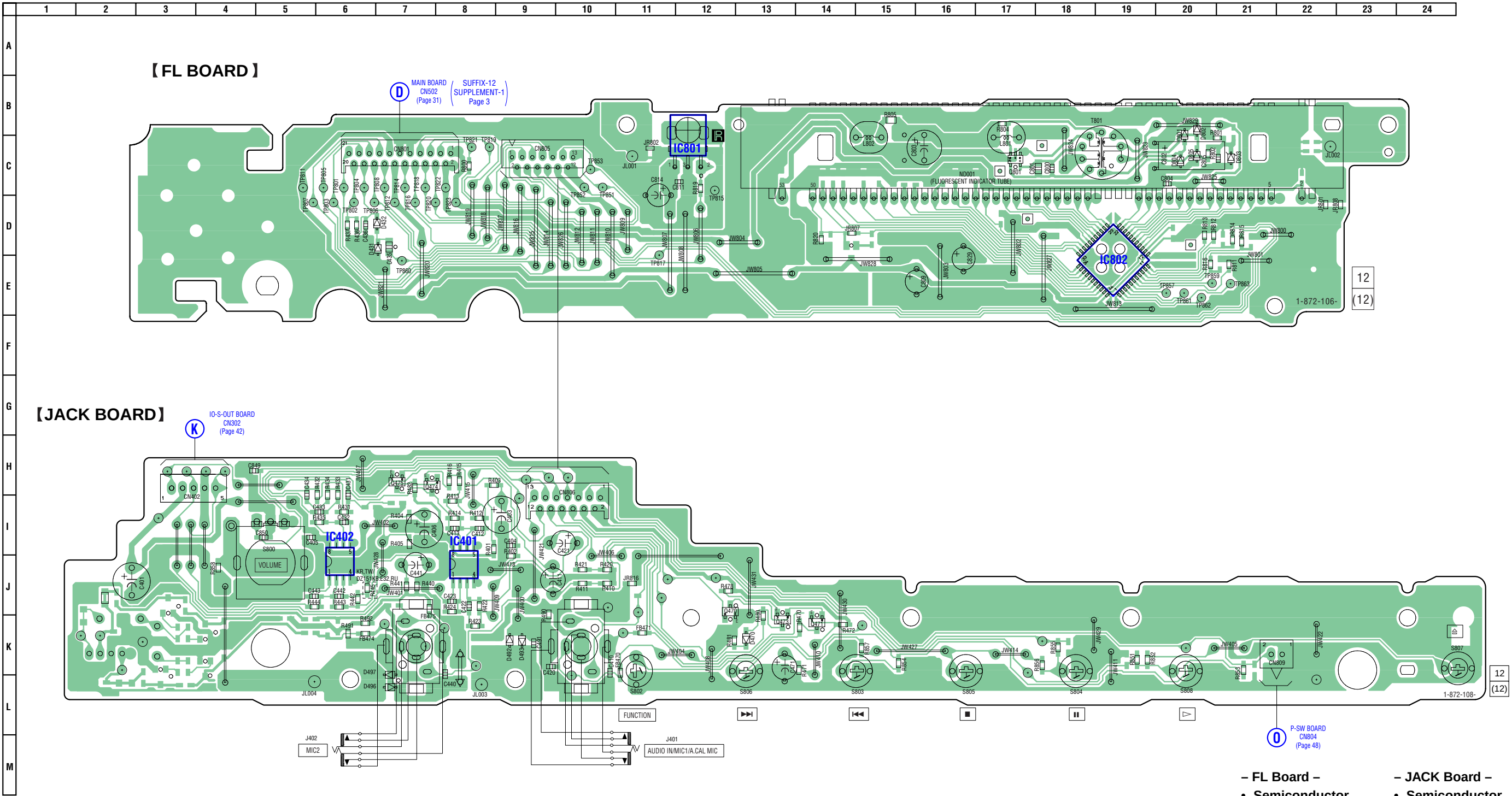
- See page 27 for Circuit Boards Location.  :Uses unleaded solder.



6-18. SCHEMATIC DIAGRAM – DIAT-CON BOARD (EXCEPT RU) –

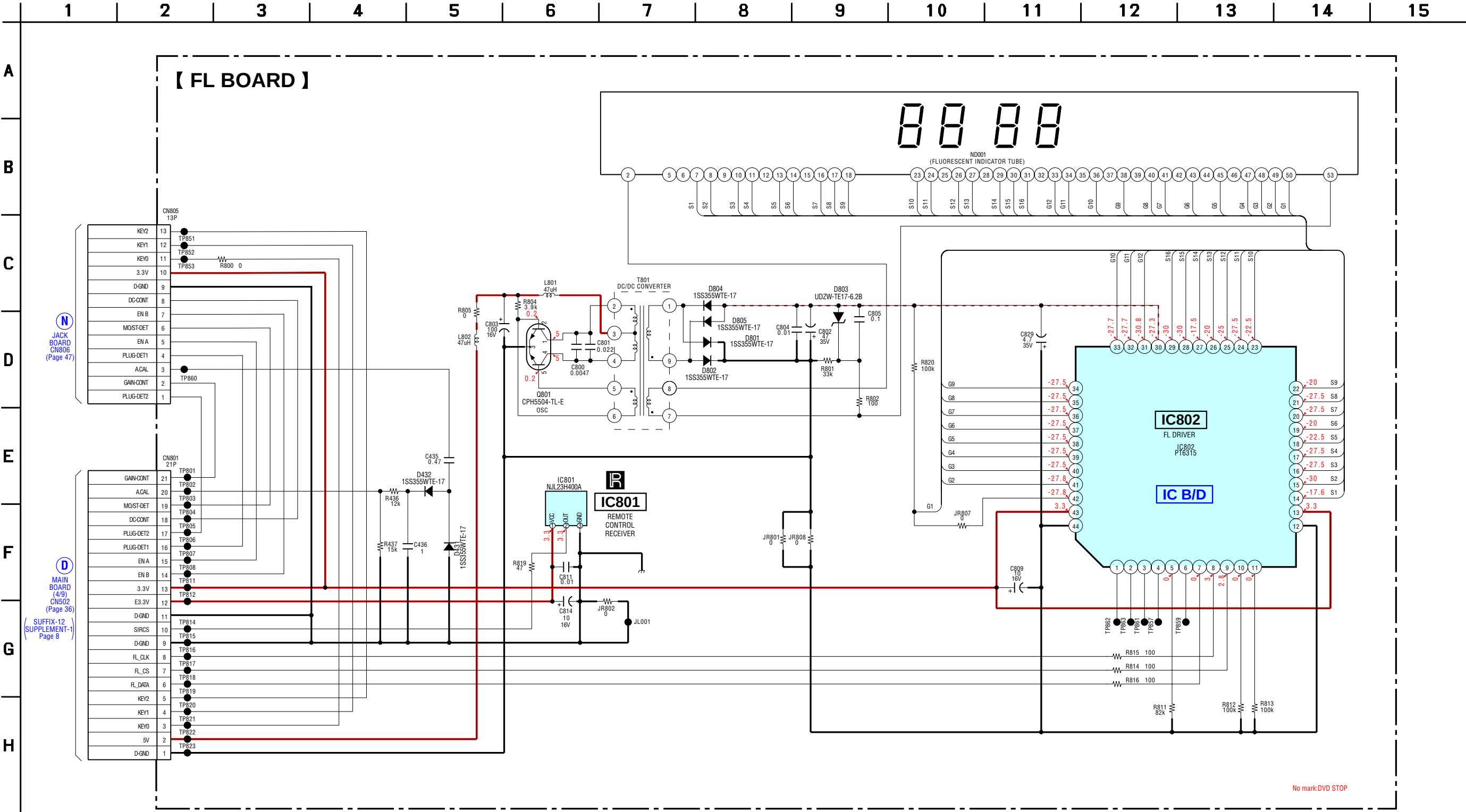


6-19. PRINTED WIRING BOARDS – FL, JACK BOARD – • See page 27 for Circuit Boards Location. :Uses unleaded solder.

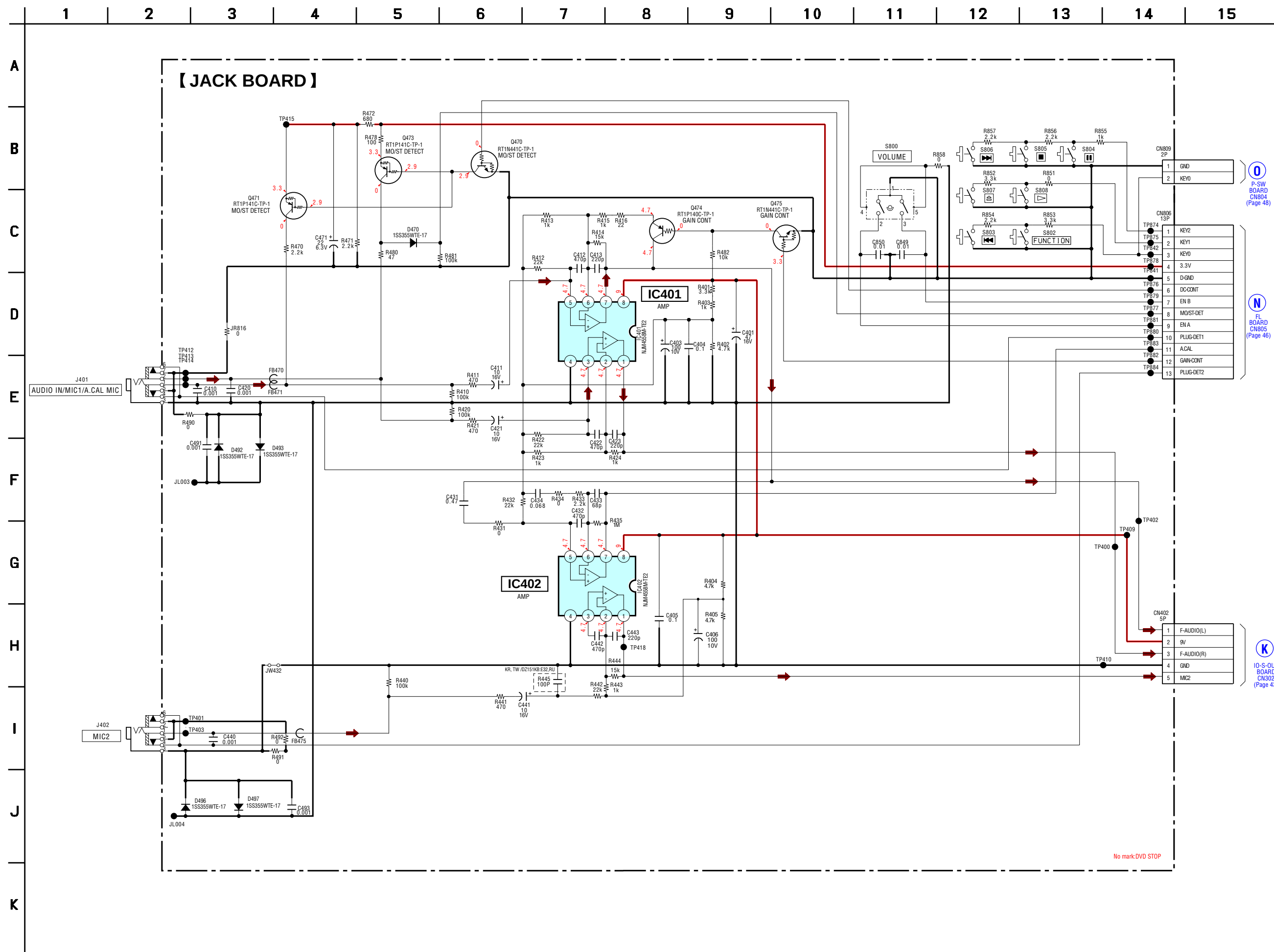


Ref. No.	Location
D431	D-7
D432	D-7
D801	B-20
D802	B-20
D803	C-21
D804	C-20
D805	C-20
IC801	C-12
IC802	E-19
Q801	C-17

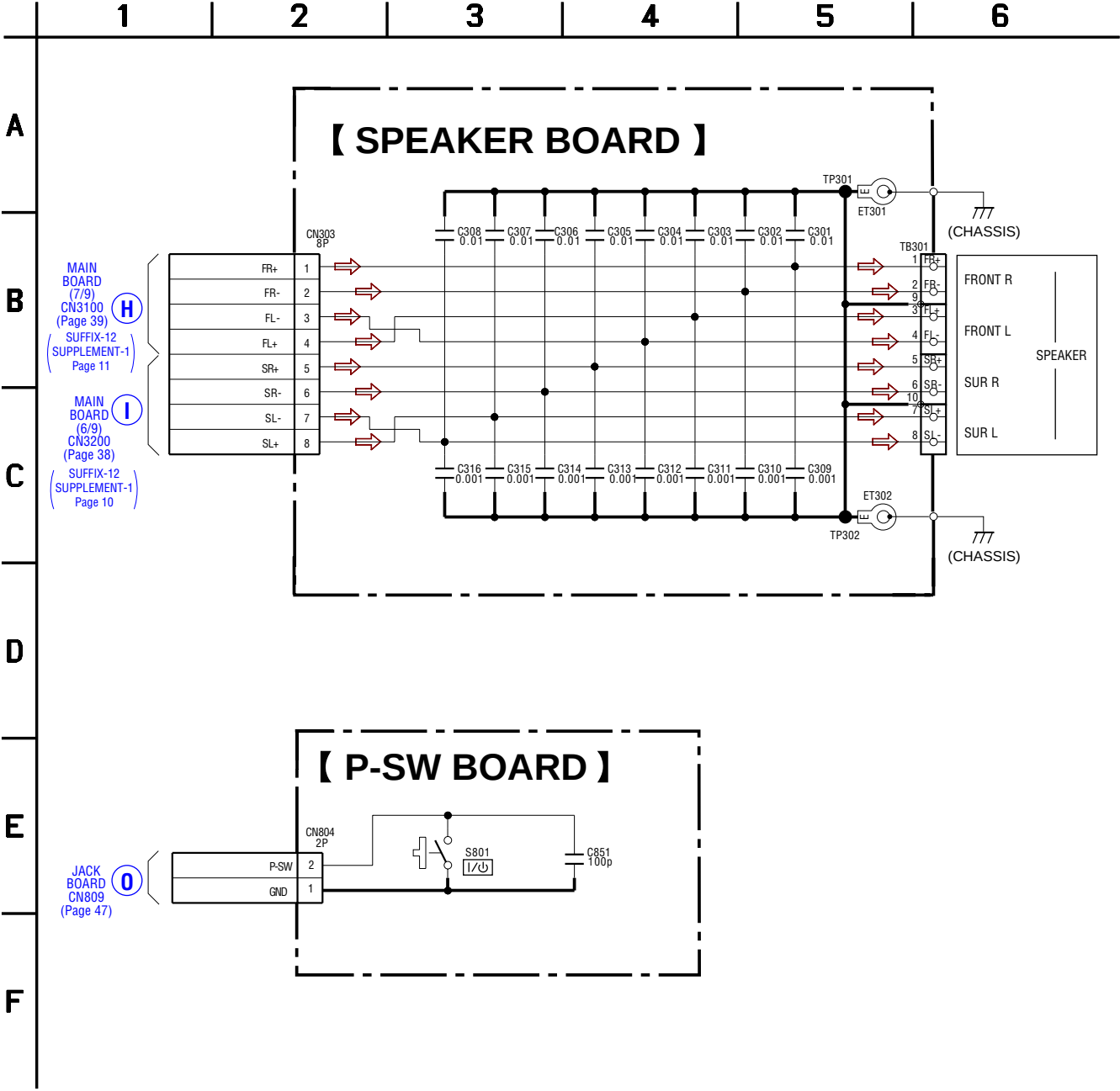
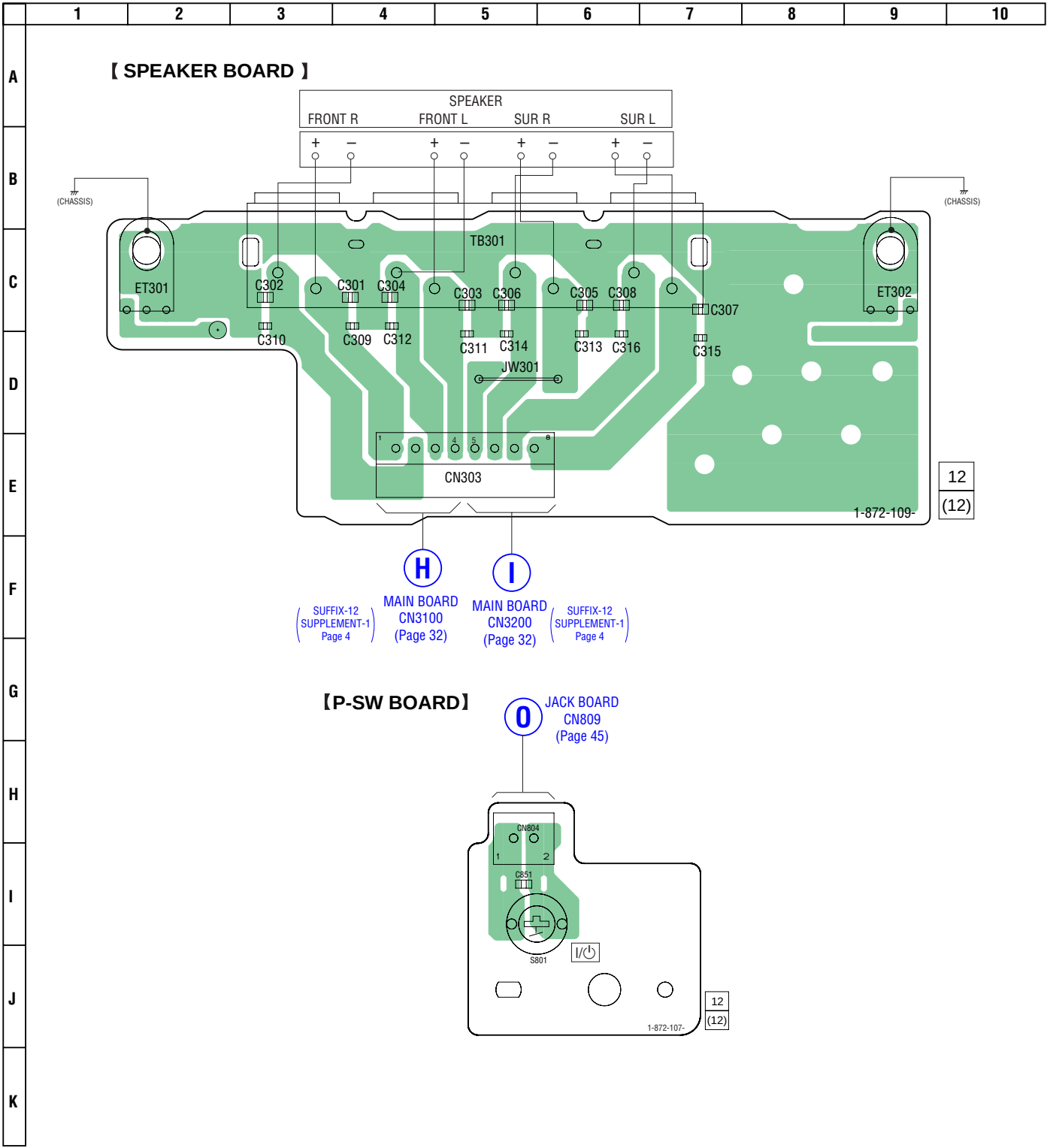
Ref. No.	Location
D470	K-13
D492	K-9
D493	K-9
D496	L-7
D497	K-7
IC401	J-8
IC402	J-6
Q470	J-12
Q471	K-14
Q473	K-13
Q474	H-7
Q475	H-7



6-21. SCHEMATIC DIAGRAM – JACK BOARD –

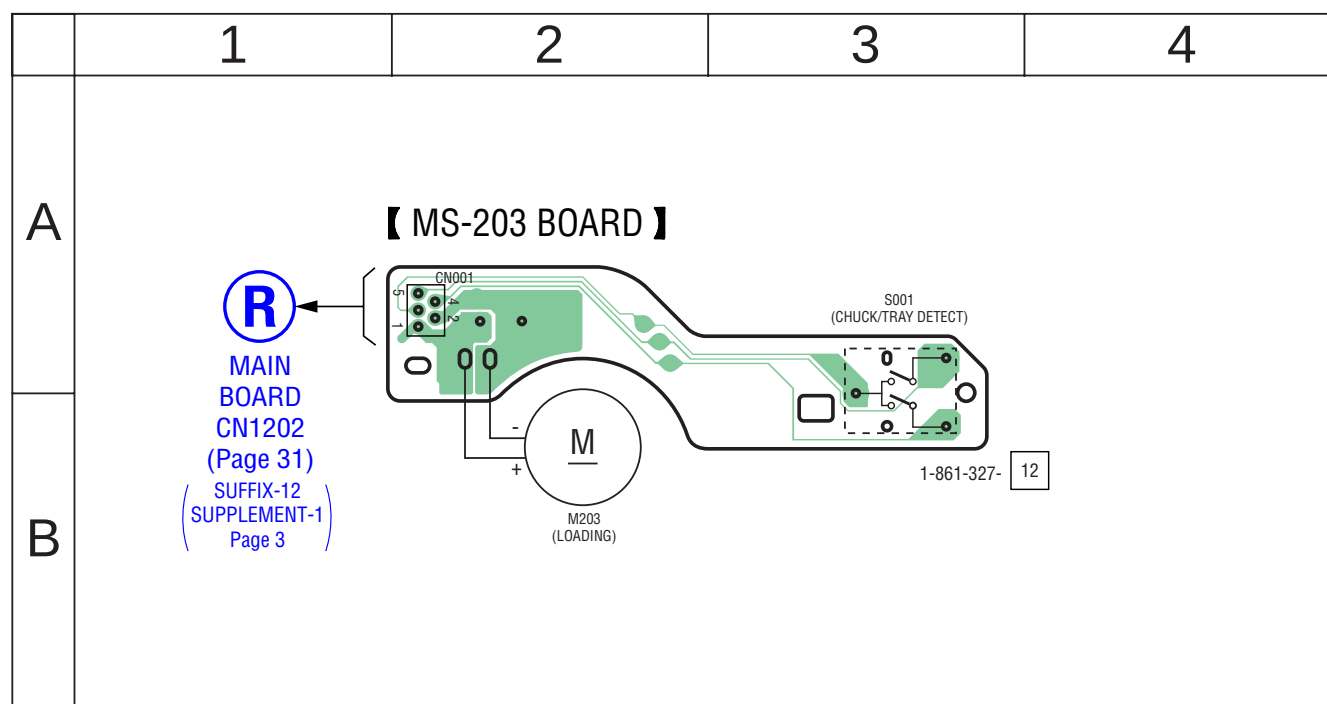


 :Uses unleaded solder.

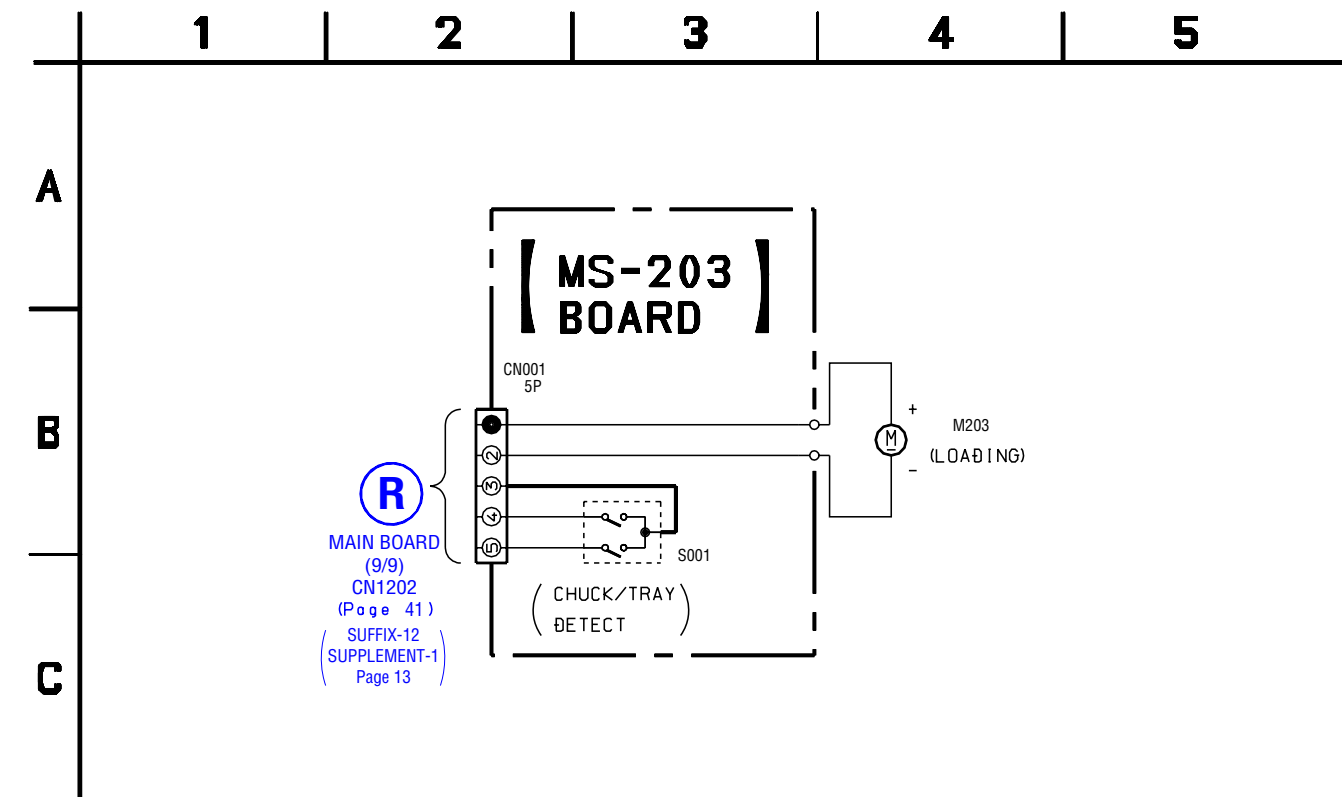


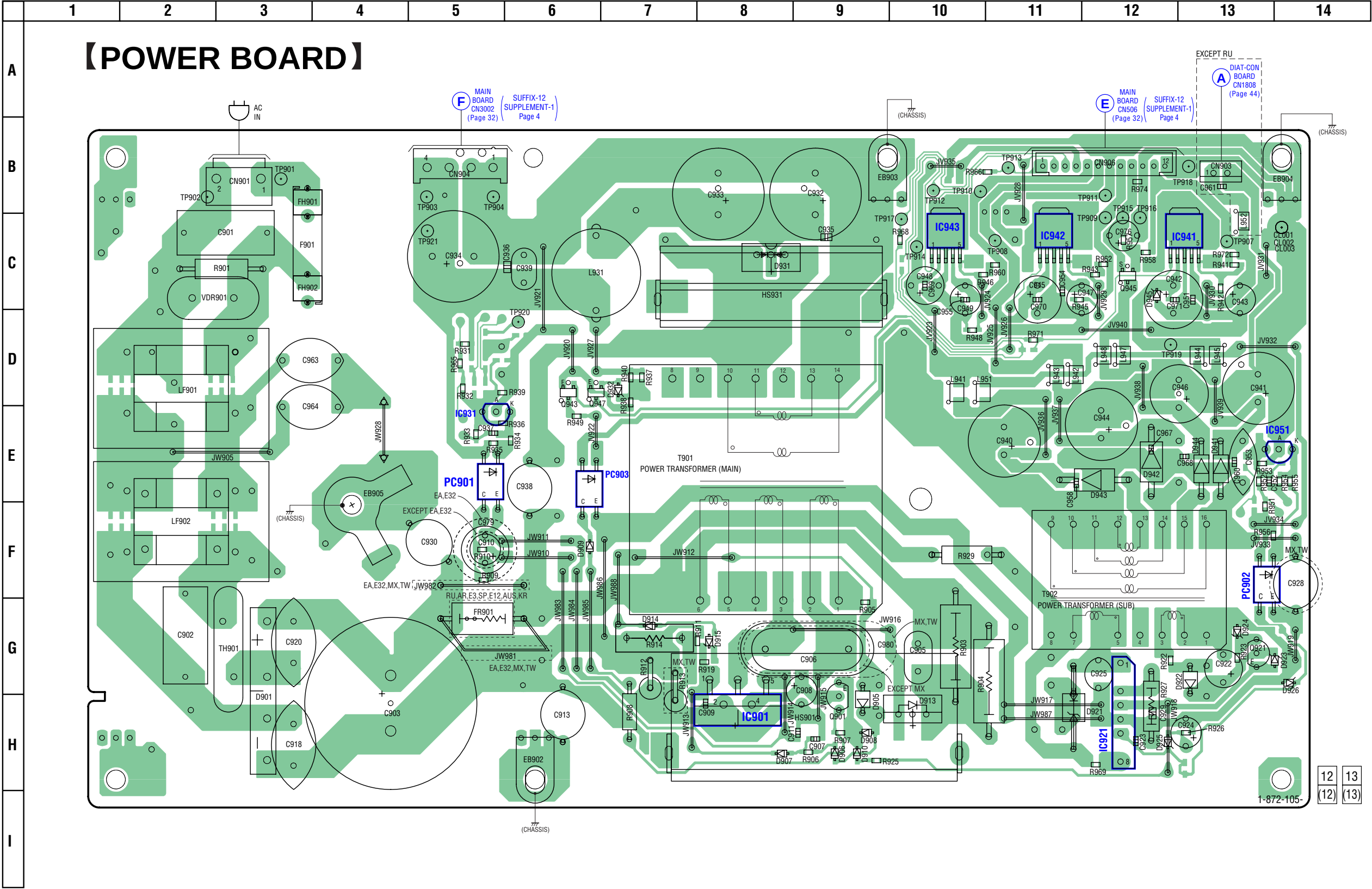
6-24. PRINTED WIRING BOARD – MS-203 BOARD – • See page 27 for Circuit Boards Location.

 :Uses unleaded solder.



6-25. SCHEMATIC DIAGRAM – MS-203 BOARD –

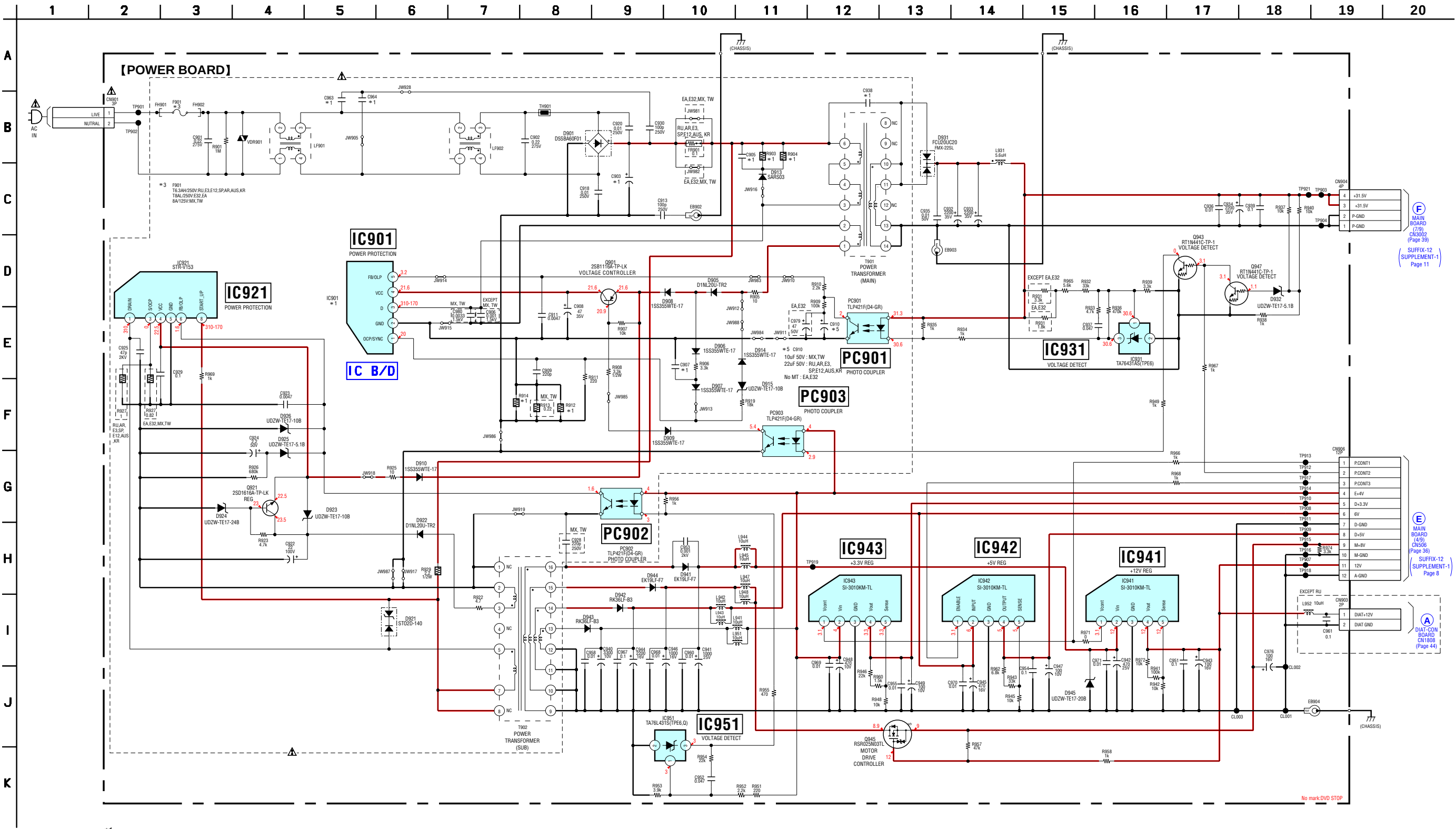




• Semiconductor Location

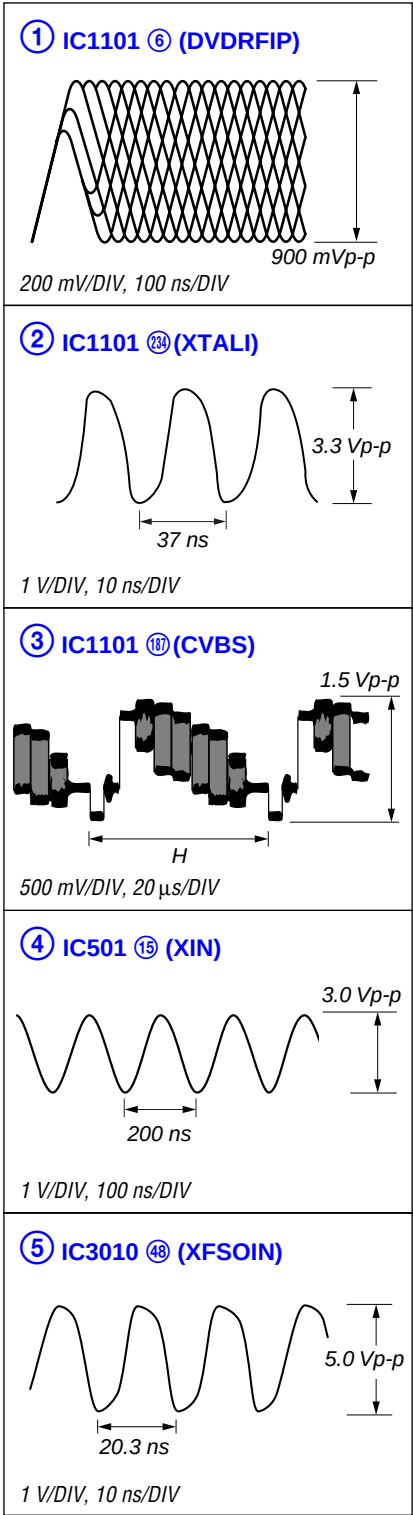
Ref. No.	Location
D901	G-3
D905	H-9
D906	H-9
D907	H-8
D908	H-9
D909	F-6
D910	H-9
D913	H-10
D914	G-7
D915	G-8
D921	H-11
D922	G-13
D923	G-14
D924	G-13
D925	H-12
D926	G-14
D931	C-8
D932	D-7
D941	E-13
D942	E-12
D943	E-12
D944	E-13
D945	C-12
IC901	H-8
IC921	H-12
IC931	E-5
IC941	C-13
IC942	C-11
IC943	C-10
IC951	E-14
PC901	E-5
PC902	F-13
PC903	E-6
Q901	H-9
Q921	G-13
Q943	D-6
Q945	C-12
Q947	D-6

6-27. SCHEMATIC DIAGRAM – POWER BOARD – • See page 56 for IC Block Diagram.

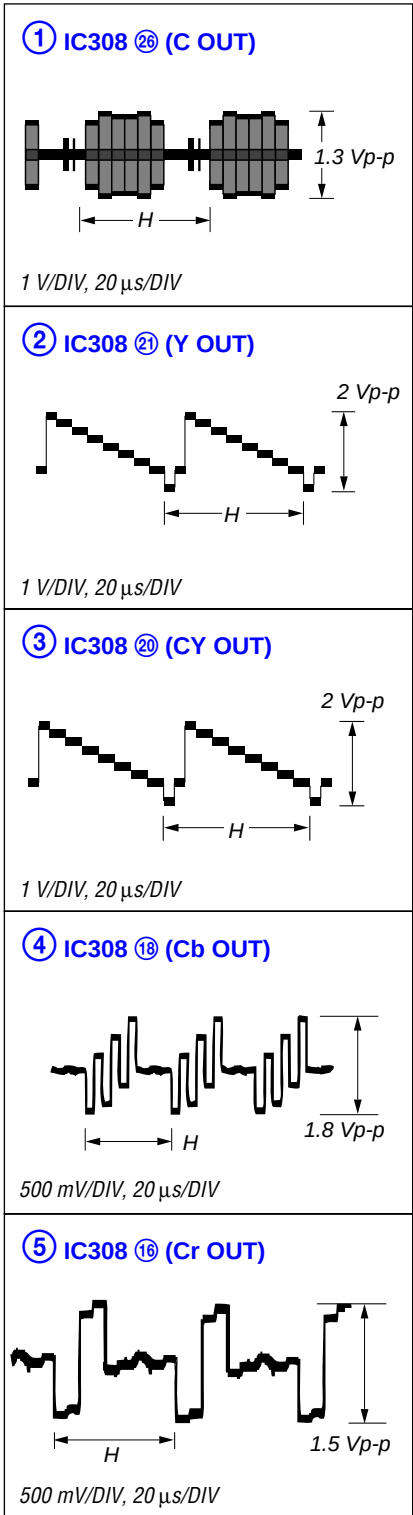


*1	EXCEPT MX, TW	MX, TW
C903	330uF 5% 450V	1000uF 5% 250V(MX) 1000uF 20% 200V(TW)
C905	0.0033uF 5% 400V	0.01uF 5% 400V
C907	0.001uF 10% 50V	0.0015uF 10% 50V
C938	470PF 10% 250V	330PF 10% 250V
C963	470PF 10% 250V	0.0022uF 20% 250V
C964	470PF 10% 250V	0.0022uF 20% 250V
IC901	STR-F6168-LF1352	STR-F6138-LF1352
R903	100K 5% 3W	33K 5% 3W
R904	100K 5% 3W	33K 5% 3W
R912	0.33 5% 2W	0.22 5% 2W
R914	0.1 10% 5W	0.05 5% 5W

• Waveforms
– MAIN Board –

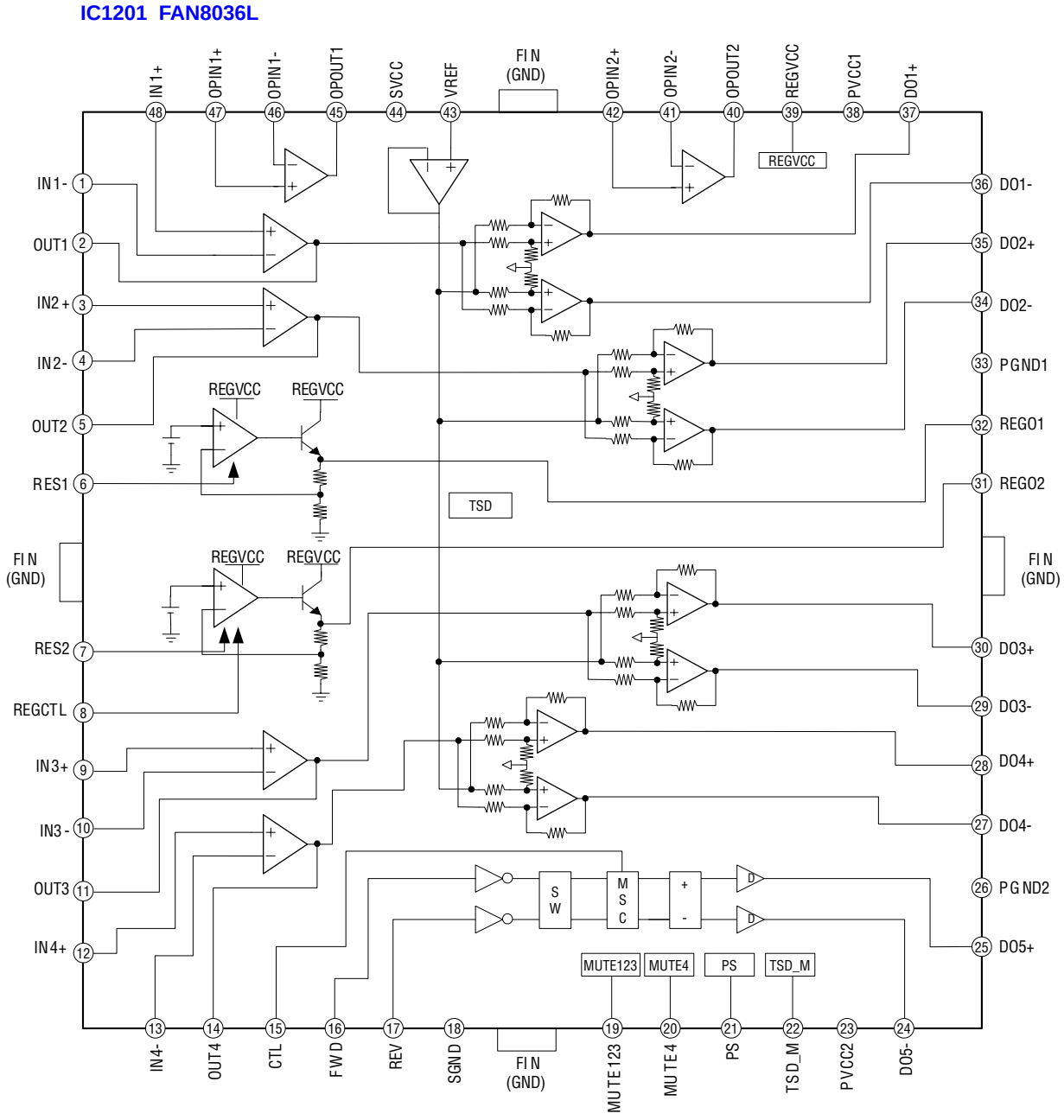


– IO-S-OUT Board –

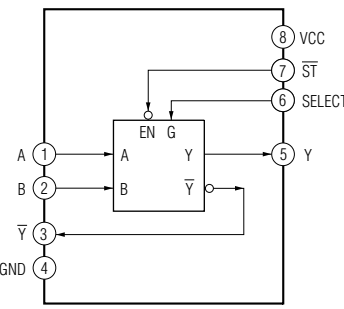


• IC Block Diagrams

– MAIN Board –

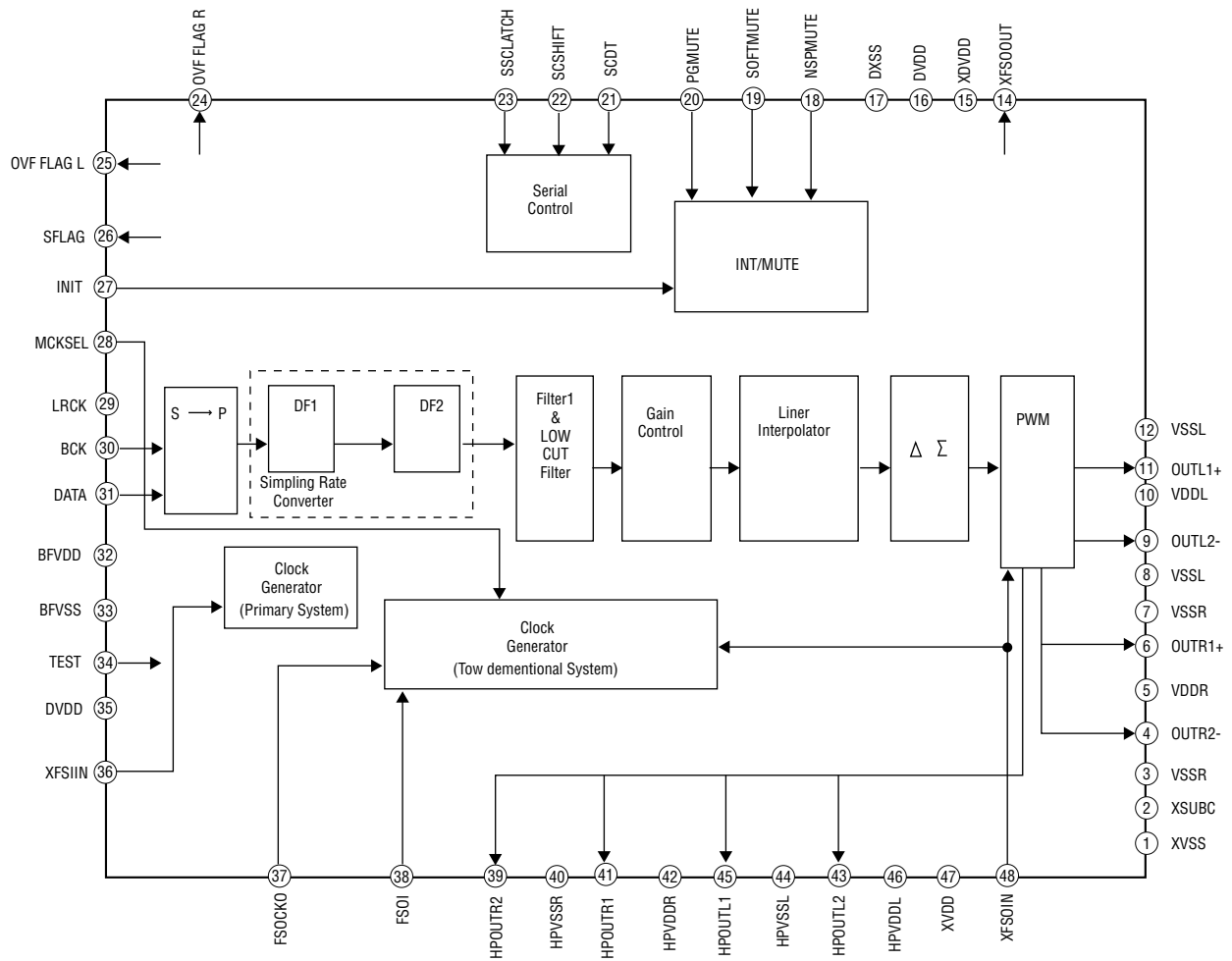


IC3003 TC7WH157FK (TE85R)



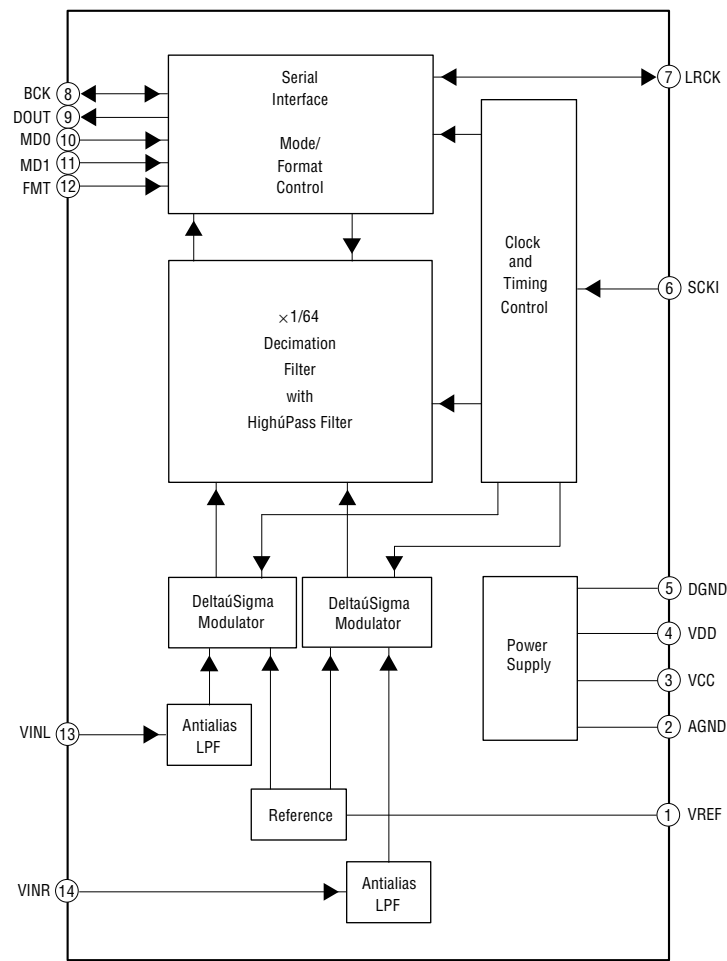
– MAIN Board –

IC3010, IC3020, IC3030 CXD9843AR



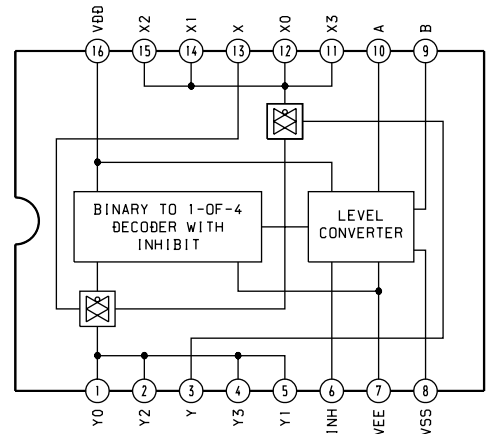
– MAIN Board –

IC772 PCM1808PWR



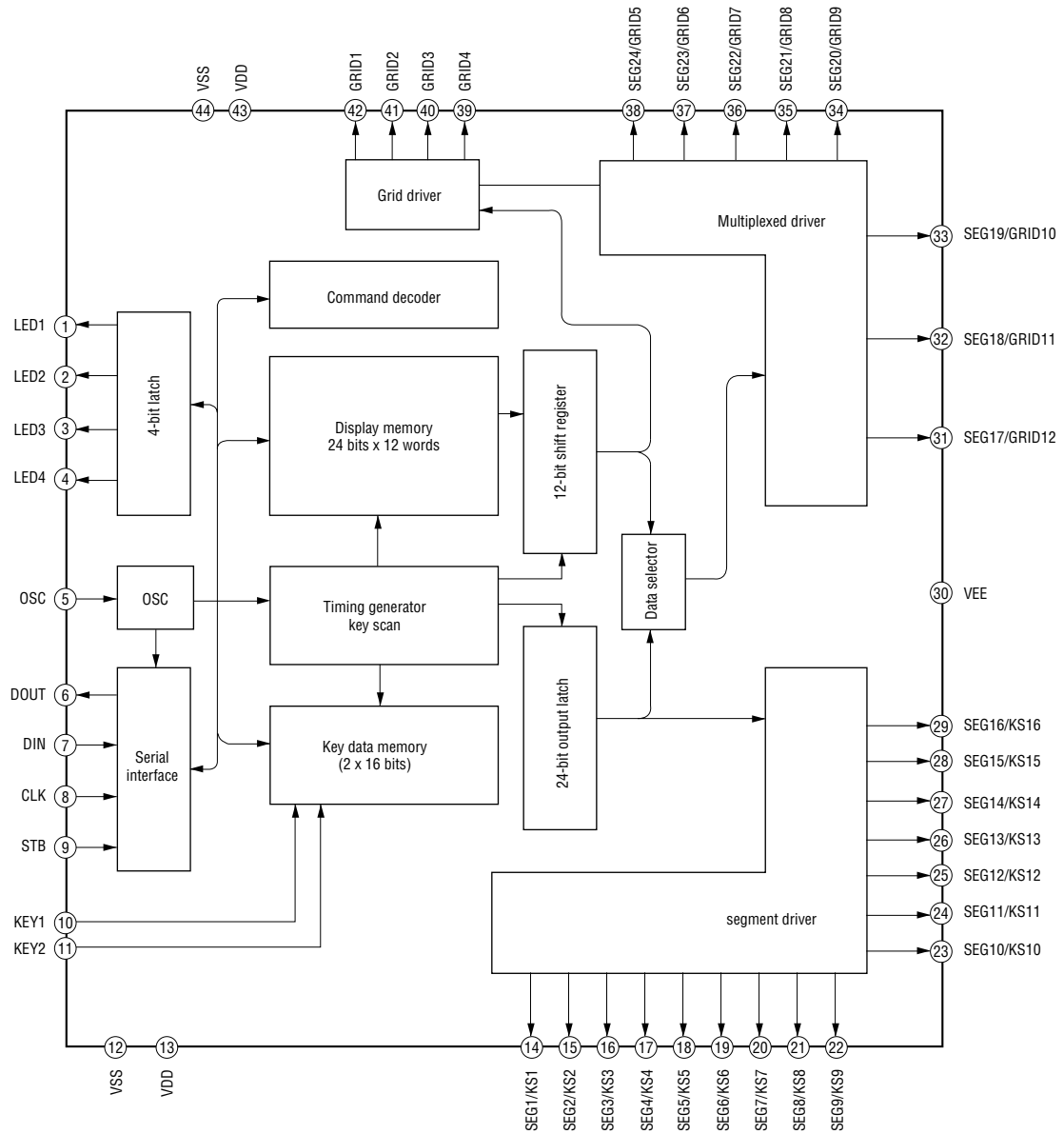
– IO-S-OUT Board –

IC303 MC14052BDR2



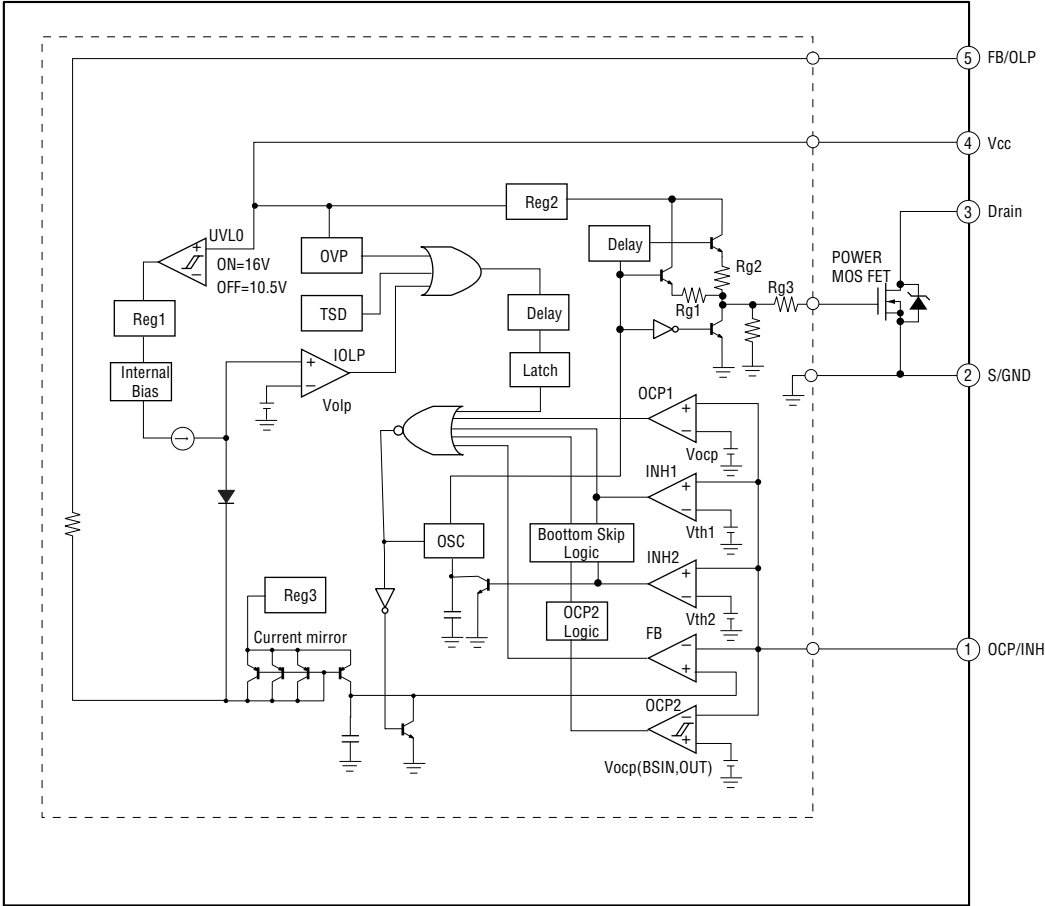
– FL Board –

IC802 uPD16315GB-3BS



– POWER Board –

IC901 STR-F6138-LF1352



• IC Pin Function Description

MAIN BOARD IC1101 CXD9889R

(CD/DVD RF AMP, FOCUS/TRACKING ERR AMP, DVD SYSTEM PROCESSOR, DIGITAL SERVO PROCESSOR)

Pin No.	Pin Name	I/O	Description
1	AGND	—	Ground terminal
2	DVDA	I	AC coupled input path A
3	DVDB	I	AC coupled input path B
4	DVDC	I	AC coupled input path C
5	DVDD	I	AC coupled input path D
6	DVDRFIP	I	AC coupled DVD RF signal input RFIP
7	DVDRFIN	I	AC coupled DVD RF signal input RFIN (not used (Open))
8	NA	I	DC coupled main-beam RF signal input A
9	NB	I	DC coupled main-beam RF signal input B
10	MC	I	DC coupled main-beam RF signal input C
11	MD	I	DC coupled main-beam RF signal input D
12	SA	I	DC coupled sub-beam RF signal input A (not used (Open))
13	SB	I	DC coupled sub-beam RF signal input B (not used (Open))
14	SC	I	DC coupled sub-beam RF signal input C (not used (Open))
15	SD	I	DC coupled sub-beam RF signal input D (not used (Open))
16	SDFON	I	CD focusing error negative input (not used (Open))
17	SDFOP	I	CD focusing error positive input (not used (Open))
18	TNI	I	3 beam satellite PD signal negative input
19	TPI	I	3 beam satellite PD signal positive input
20	MDI1	I	Laser power monitor input
21	MDI2	I	Laser power monitor input
22	LDO2	O	Laser driver output
23	LDO1	O	Laser driver output
24	SVDD3	—	Power supply (RF+3.3V)
25	CSO	O	Central servo (not used (Open))
26	RFLVL	O	RFRP low pass output for jig
27	SGND	—	Ground terminal
28	V2REFO	O	Reference voltage 2.8V
29	V20	O	Reference voltage 2.0V
30	VREFO	O	Reference voltage 1.4V
31	FEO	O	Focus error monitor output for jig
32	TEO	O	Tracking error monitor output for jig
33	TEZISLV	O	TE Slicing Level
34	OP_OUT	O	Op amp output (not used (Open))
35	OP_INN	I	Op amp negative input (not used (Open))
36	OP_INP	I	Op amp positive input (not used (Open))
37	DMO	O	Disc motor control output. PWM output
38	FMO	O	Feed motor control. PWM output
39	TROPENPWM	O	Tray PWM output / Tray open output
40	IOPMON	I	Iop Monitor
41	TRO	O	Tracking servo output
42	FOO	O	Focus servo output
43	VPLLVS	—	Ground terminal
44	VPLLCAP	—	PLL External Capacitor
45	VPLLVDD3	—	Power supply (+3.3V from IC1105)
46	USB_VSS	—	Ground terminal
47	RESERVED	—	Not used (Open)

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Pin No.	Pin Name	I/O	Description
48	RESERVED	—	Not used (Open)
49	USB_VDD3	—	Power supply (SW+3.3V)
50	SPFG	I	Spindle FG input
51	MSW	O	DVD/CD switch (H:DVD / L:CD)
52	CKSW	I	CKSW input
53	OCSW	I	OCSW input
54	EEWP	O	EEPROM Write Protect control (L:Write allowed)
55	DVDD18	—	Power supply (+1.8V from IC1110)
56 to 64	HA2 to 8, 18, 19	O	Host address bus 2 to 8, 18, 19 output to Flash ROM (IC1102)
65	DVDD3	—	Power supply (SW+3.3V)
66	XWR	O	Write enable output to Flash ROM (IC1102) (active Low)
67 to 75	HA16 to 9, 20	O	Host address bus 16 to 9, 20 output to Flash ROM (IC1102)
76	XROMCS	O	Chip select output to Flash ROM (IC1102) (active Low)
77	HA1	O	Host address bus 1 output to Flash ROM (IC1102)
78	XRD	O	Read enable output to Flash ROM (IC1102) (active Low)
79, 80	HD0,1	I/O	Host data bus 0,1 input/output for Flash ROM (IC1102)
81	DVSS	—	Ground terminal
82 to 86	HD2 to 6	I/O	Host data bus 2 to 6 input/output for Flash ROM (IC1102)
87	HA21	O	Host address bus 21 output to Flash ROM (IC1102)
88	RESERVED	—	Not used (Open)
89	HD7	I/O	Host data bus 7 input/output for Flash ROM (IC1102)
90	DVSS	—	Ground terminal
91, 92	HA17, 0	O	Host address bus 17, 0 output to Flash ROM (IC1102)
93	DVDD18	—	Power supply (+1.8V from IC1110)
94	RESERVED	—	Not used (Open)
95	RESERVED	—	Not used (Open)
96	DVDD3	—	Power supply (SW+3.3V)
97	IFSDO	O	Ext. CPU Serial data output (H/W method)
98	IFCK	O	Ext. CPU Serial clock (H/W method)
99	xIFCS	O	Chip select for Ext.CPU (Low Active, H/W method)
100	IFSDI	I	Ext. CPU Serial data input (H/W method)
101	SCL	O	IIC clock output to EEPROM
102	SDA	I/O	IIC data input/output for EEPROM
103	HDMI_SCL	O	HDMI DDC line SCL (not used)
104	HDMI_SDA	I/O	HDMI DDC line SDA (not used)
105	RXD	I	RS232C RXD signal input from Jig
106	TXD	O	RS232C TXD signal output to Jig
107	ICE	O	ICE mode enable (not used (Open))
108	xSYSRST	I	Reset input from system controller (IC501) (active Low)
109	RESERVED	I	Not used (Open)
110	xTXINT	I	Interrupt signal from HDMI controller (not used (Fixed to “H” (SW+3.3V)))
111	DQM0	O	Lower byte mask output to SDRAM (IC1104) (H:Mask / L:Enable)
112	IFBSY	I	Ready/Busy interrupt signal input from system controller (IC501) (H:Busy / L:Ready)
113 to 117	RD7 to 3	I/O	Data bus 7 to 3 input/output for SDRAM (IC1104)
118	DVDD3	—	Power supply (SW+3.3V)
119 to 129	RD2 to 0, 15 to 8	I/O	Data bus 2 to 0, 15 to 8 input/output for SDRAM (IC1104)
130	LIMITSW	I	LIMITSW signal input
131	DVDD3	—	Power supply (SW+3.3V)
132	DQM1	O	Upper byte mask output to SDRAM (IC1104) (H:Mask / L:Enable)

Pin No.	Pin Name	I/O	Description
133	RWE#	O	Write enable output to SDRAM (IC1104)
134	CAS#	O	Column address strobe output to SDRAM (IC1104)
135	RAS#	O	Row address strobe output to SDRAM (IC1104)
136	RCS#	O	Chip select output to SDRAM (IC1104)
137, 138	BA0, 1	O	Bank address 0, 1 output to SDRAM (IC1104)
139 to 141	RA10, 0, 1	O	Address bus 10, 0, 1 output to SDRAM (IC1104)
142	DVDD18	—	Power supply (+1.8V from IC1110)
143, 144	RA2, 3	O	Address bus 2, 3 output to SDRAM (IC1104)
145	DVDD3	—	Power supply (SW+3.3V)
146	DRCLK	O	Clock output to SDRAM (IC1104)
147	CKE	O	Clock enable output to SDRAM (IC1104)
148	DVSS	—	Ground terminal
149 to 155	RA11, 9 to 4	O	Address bus 11,9 to 4 output to SDRAM (IC1104)
156	DVDD3	—	Power supply (SW+3.3V)
157 to 159	SMPTE_Y[7] to [5]	O	Video data output bit7 to 5 (not used (Open))
160	DVDD18	—	Power supply (+1.8V from IC1110)
161 to 165	SMPTE_Y[4] to [0]	O	Video data output bit4 to 0 (not used (Open))
166	VCLK	O	27MHz synchronous clock output for Video data (not used (Open))
167	MIC	I	Karaoke microphone detect signal (H:MIC exist / L:MIC removed)
168	TSD_M	I	TSD signal input
169	MUTE	O	Mute output for Spindle motor
170	DVDD3	—	Power supply (SW+3.3V)
171	MUTE123	O	Mute output for Focus/Tracking/Sleding
172, 173	REV, FWD	O	Direction control signal output for Loading motor
174	DVDD18	—	Power supply (+1.8V from IC1110)
175	RGB_SEL	O	RGB/YCbCr select output signal (H:RGB disable / L:RGB enable) (not used (Open))
176	Fixed_low	O	Reserved (not used (Open))
177	WIDE	O	WIDE select output for Multi connector (H:16:9 / L:4:3)
178	DVSS	—	Ground terminal
179	VBUS_OE	O	VBUS_control OE (H:ON / L:OFF) (not used (Open))
180	xMAMUTE	O	Main Audio Mute signal (H:Un Mute / L:Mute) (not used (Open))
181	VBUS_OC	I	VBUS_control OC (H: Non_OVER / L:OVER) (Fixed to “H” (SW+3.3V))
182	R/Cr/Pr	O	CR/PR signal output
183	B/Cb/Pb	O	CB/PB signal output
184	DACVSSA	—	Ground terminal
185	Y/G	O	Y signal output
186	DACVDDA	—	Power supply (+3.3V from IC1105)
187	CVBS	O	Composite video signal output
188	DACVSSB	—	Ground terminal
189	C	O	Chroma signal output for S-Video
190	DACVDDDB	—	Power supply (+3.3V from IC1105)
191	Y	O	Y signal output for S-Video
192	DACVSSC	—	Ground terminal
193	CIN	O	Compensation Capacitor (not used (Open))
194	FS	I	Full Scale Adjustment
195	VREF	I	Bandgap Ref Voltage
196	DACVDDC	—	Power supply (+3.3V from IC1105)
197	ASDATA0	O	Audio serial data 4: Down-mixed L/R
198	TRG_SW	I	Slot-in MECHA Trigger SW detect (not used (Fixed to “H” (SW+3.3V)))

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Pin No.	Pin Name	I/O	Description
199	SCORE	I	Calculation of SCORE
200	XVOICE	I	Detection of MIC signal (H:Voice exist / L:Voice is absence)
201	Fixed_Low	—	Not used (Open)
202	ASDATA1	O	Audio serial data 1: SL/SR
203	ASDATA2	O	Audio serial data 2: C/SW
204	Fixed_Low	—	Not used (Open)
205	Fixed_Low	—	Not used (Open)
206	Fixed_Low	—	Not used (Open)
207	Fixed_Low	—	Not used (Open)
208	DVDD3	—	Power supply (SW+3.3V)
209	ALRCK	O	Audio left/right channel clock output
210	ABCK	O	Audio bit clock output
211	ACLK	O	Master clock output for Audio DAC
212	ADIN	I	Ex. Analog Audio data input
213	DVDD18	—	Power supply (+1.8V from IC1110)
214	ASDATA4	O	Audio serial data 0: FL/FR
215	MC_DATA	I	Mic signal Input (not used (Fixed to Ground))
216	SPDIF	O	SPDIF output
217	APLLVDD3	—	Power supply (+3.3V from IC1105)
218	APLLCAP	I	APLL External Capacitance connection
219	APLLVSS	—	Ground terminal
220	ADACVSS2	—	Ground terminal
221	ADACVSS1	—	Ground terminal
222	KMOD	O	Karaoke mode status output (H:Karaoke / L:Normal)
223	PWON	O	Power down control signal to HDMI controller (not used (Fixed to “H” (SW+3.3V))
224	Rch	O	Audio DAC Right channel output
225	AVCM	—	Audio DAC Reference Voltage
226	Lch	O	Audio DAC Left channel output
227	DSEL	O	Interlace/Progressive select output signal (H:480i / L:480p) (not used (Open))
228	xRST	O	Reset output signal for ADAC (Low Active) (not used (Open))
229	ADACVDD1	—	Power supply (+3.3V from IC1105)
230	ADACVDD2	—	Power supply (+3.3V from IC1105)
231	RFGND18	—	Ground terminal
232	RFVDD18	—	Power supply (+1.8V from IC1110)
233	XTALO	O	27MHz crystal output (not used (Open))
234	XTALI	I	27MHz crystal input
235	JITFO	O	The output terminal of RF jitter meter
236	JITFN	I	The input terminal of RF jitter meter
237	PLLVSS	—	Ground terminal
238	IDACEXLP	I	RF Data PLL DAC LPF
239	PLLVD3	—	Power supply (RF+3.3V)
240	LPFON	O	The negative output of loop filter amplifier
241	LPFIP	I	The positive input terminal of loop filter amplifier
242	LPFIN	I	The negative input terminal of loop filter amplifier
243	LPFOP	O	The positive output of loop filter amplifier
244	ADCVD3	—	Power supply (RF+3.3V)
245	ADCVSS	—	Ground terminal
246	RFVDD3	—	Power supply (RF+3.3V)
247	RFRPDC	O	RF ripple detect output

Pin No.	Pin Name	I/O	Description
248	RFRPAC	I	RF ripple detect input (through AC-coupling)
249	HRFZC	I	High frequency RF ripple zero crossing
250	CRTPLP	O	Defect level filter capacitor connecting
251	RFGND18	—	Ground terminal
252	OSP	O	RF offset cancellation capacitor connecting
253	OSN	O	RF offset cancellation capacitor connecting
254	RFGC	O	RF AGC loop capacitor connecting for DVD-ROM
255	IREF	I	Current reference input
256	AVDD3	—	Power supply (RF+3.3V)

HCD-DZ150K/DZ151KB

MAIN BOARD IC501 M30622MEP-B03FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	DAMP_SCDT/ DIAT_SDATA/DIR_DIN	O	DAMP processor data output, DIAT serial data output
2	DAMP_SHIFT/ DIAT_SCLK/DIR_CLK	O	DAMP processor clock output, DIAT serial clock output
3	NO USE	O	Not used (Open)
4	SIRCS_IN	I	Sircs input
5	NO USE	O	Not used (Open)
6	NO USE	O	Not used (Open)
7	NO USE	O	Not used (Open)
8	BYTE	I	External data bus (Ground terminal)
9	CNVSS	I	Change processor mode (Pull down)
10, 11	EN_A, EN_B	I	Volume control for ENCODER (Pull up)
12	RESET	I	System reset signal input
13	XOUT	O	Crystal output for main clock (5MHz)
14	VSS	—	Ground terminal
15	XIN	I	Crystal input for main clock (5MHz)
16	VCC	—	Power supply (BUP+3.3V)
17	NMI	I	Not used (Fixed to “H” (BUP+3.3V))
18	NO USE	O	Not used (Open)
19	A.CAL_OUT_LEVEL	I	Out level detect for auto calibration
20	AC_CUT	I	Detect AC-CUT
21	FL_CLK/LED_CLK	O	FL and LED driver clock output
22	NO USE	O	Not used (Open)
23	DIAT_CSOD	I	DIAT CSOD signal input
24	FL_D_OUT/LED_DATA	O	FL and LED driver data output
25	NO USE	—	Not used (Open)
26	MIC_GAIN	O	MIC gain control
27	CDM_OPEN_SW	I	CDM open switch input
28	DC_CONT	O	A.CAL MIC DC control output
29	CLINK_RX_IN	I	Not used (Fixed to “L”)
30	CLINK_TX_OUT	O	Not used (Fixed to “H”)
31	DVD_SID	O	Media Tek data out / Flash write TXD1
32	DVD_SOD	I	Media Tek data in / Flash write RXD1
33	DVD_SCO	I	Media Tek clock in / Flash write CLK1
34	DVD_XIFBUSY	O	Media Tek busy request / Flash write RTS1
35	MIC_DET_OUT	O	MIC detect status out to Media Tek
36	KARAOKE MODE	I	KARAOKE mode information from Media Tek
37	DVD XIFCS	I	Media Tek chip select
38	MTK_RST	O	Media Tek reset
39	P_CONT1	O	Control for power supply 1
40	P_CONT2	O	Control for power supply 2
41	P_CONT3	O	Control for power supply 3
42	DRIVE_RST(EN)	O	DAMP driver reset
43	DRIVE_OCP(DIAG)	I	DAMP driver shut down
44	OVERFLOW1	I	DAMP processor F/C/S over flow detect
45	OVERFLOW2	I	DAMP processor SW over flow detect
46	WRITE CE	I	Flash write CE (not used (Fixed to “H” (E3.3V)))
47	DAMP LATCH1	O	DAMP processor latch1

Pin No.	Pin Name	I/O	Description
48	DAMP LATCH2	O	DAMP processor latch2
49	DAMP LATCH3	O	DAMP processor latch3
50	DAMP INIT	O	DAMP processor reset
51	DAMP SOFT MUTE	O	DAMP processor soft muting
52	MIC2 SW	I	MIC2 insert switch
53	NO USE	O	Not used (Open)
54	NO USE	O	Not used (Open)
55	NO USE	O	Not used (Open)
56	FL_STB	O	FL driver chip select output
57	DC_DET	I	Speaker DC detect input
58	NO USE	O	Not used (Open)
59	NO USE	O	Not used (Open)
60	NO USE	O	Not used (Open)
61	NO USE	O	Not used (Open)
62	VCC	—	Power supply (BUP+3.3V)
63	MIC/A.CAL_SW	I	MIC insert switch
64	VSS	—	Ground terminal
65	DIAT_XRST	O	DIAT reset
66	DIAT_XSCEN	O	DIAT chip enable
67	NO USE	O	Not used (Open)
68	TUNED	I	TUNER tuned input
69	ST_CLK	O	TUNER clock output
70	ST_DO	I	TUNER data input
71	ST_CE	O	TUNER chip enable
72	ST_DI	O	TUNER data output
73	NO USE	O	Not used (Open)
74	KEY INT	I	Wakeup from ECO mode by key input
75	MIC_CLK	O	MIC electric volume clock output
76	MIC-DAT	O	MIC electric volume data output
77	DIAT_DET	I	DIAT ready detect input
78	NO USE	O	Not used
79	M_ST	O	LINK (Multi STEREO) control output
80	NO USE	O	Not used (Open)
81	ASEL3	O	Audio selector 3 (not used)
82	V_SEL0	O	Video selector 0
83	V_SEL1	O	Video selector 1
84	ASEL0	O	Audio selector 0
85	ASEL1	O	Audio selector 1
86	ASEL2	O	Audio selector 2 (not used)
87	NO USE	O	Not used
88	NO USE	O	Not used (Open)
89	CLINK_DET	O	C-Link detect input (not used (Open))
90	MONO/ST_DET	I	Front jack MONO or STEREO detect
91	A.CAL MIC LEVEL	I	MIC level detect for auto calibration
92	DESTINATION	I	Destination select input
93	MODEL	I	Model select input
94	KEY2	I	Key input 2 input
95	KEY1	I	Key input 1 input
96	VSS	—	Ground terminal

HCD-DZ150K/DZ151KB

Pin No.	Pin Name	I/O	Description
97	KEY0	I	Key input 0 input
98	VREF	—	Reference voltage (E3.3V)
99	VCC	—	Power supply (BUP+3.3V)
100	NO USE	O	Not used

SECTION 7 EXPLODED VIEWS

NOTE:

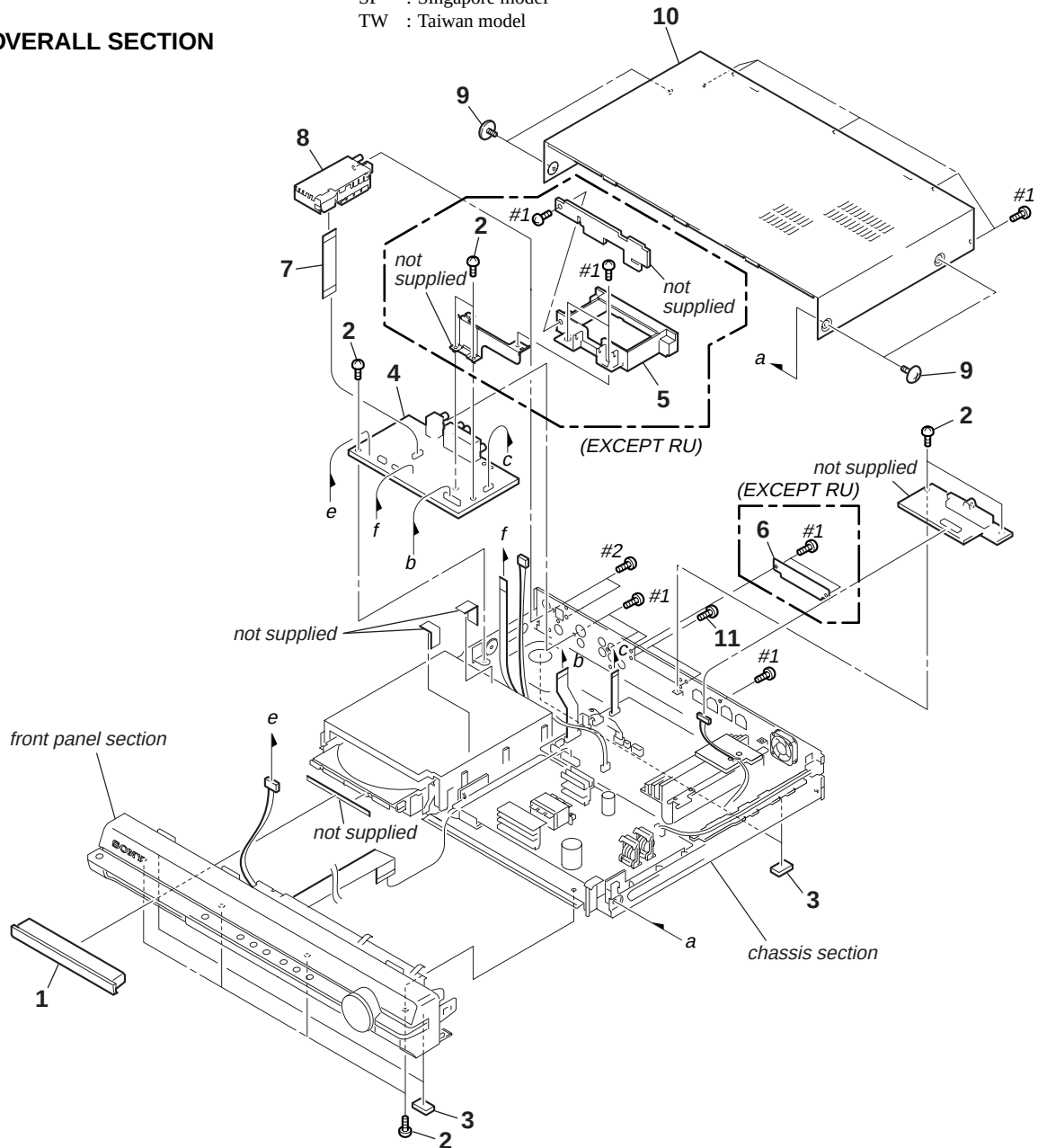
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

- Abbreviation
- AR : Argentine model
- AUS : Australian model
- E3 : 220 – 240V AC area in E model
- E12 : 220 – 240V AC area in E model
- E32 : 110 – 240V AC area in E model
- EA : Saudi Arabia model
- KR : Korean model
- MX : Mexican model
- RU : Russian model
- SP : Singapore model
- TW : Taiwan model

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

The components identified by mark $\square$ contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

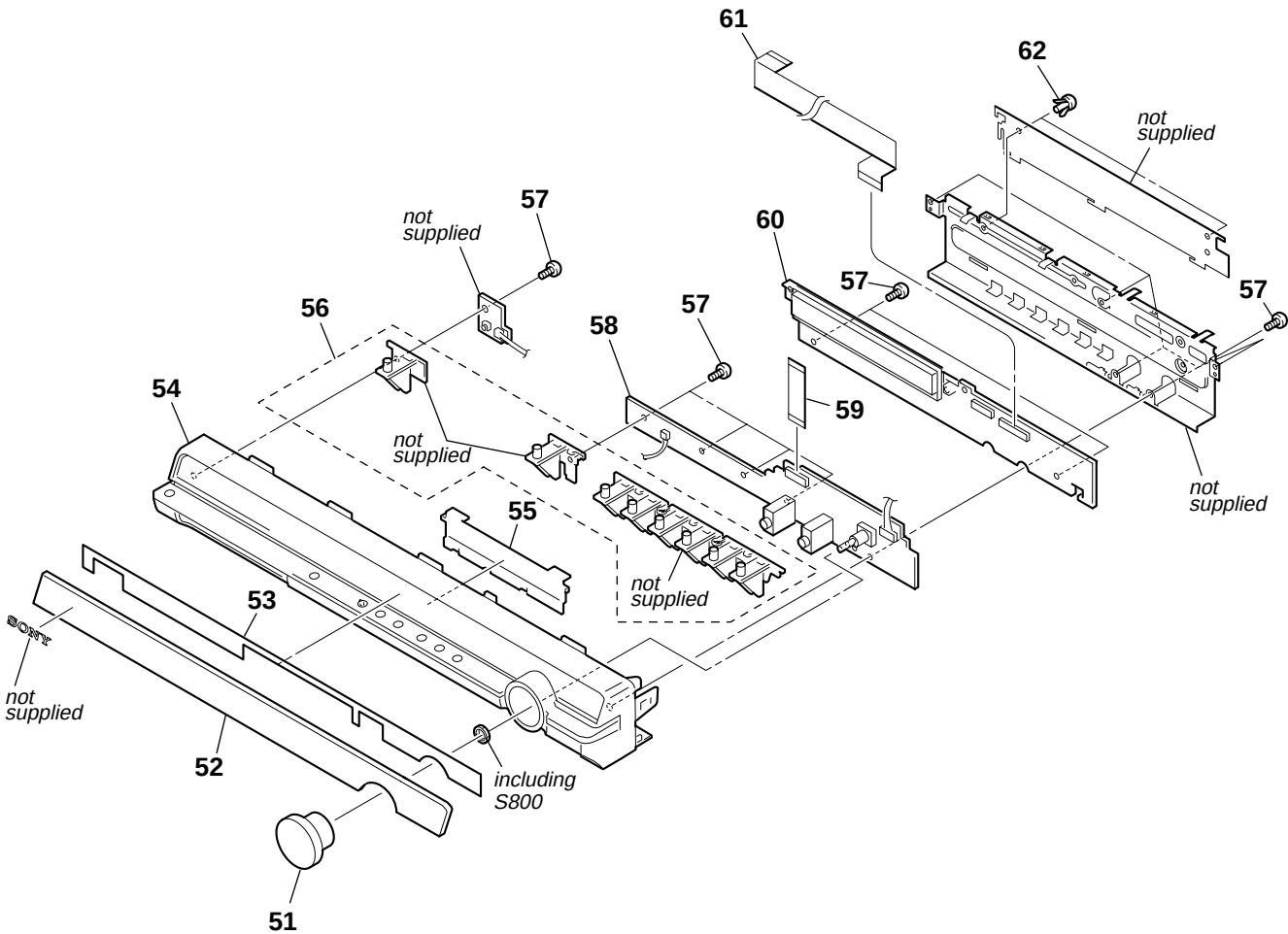
7-1. OVERALL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	2-889-987-01	PANEL, LOADING (DZ150K)		8	1-693-725-11	TUNER (FM/AM)(RU, KR)	
1	2-889-987-11	PANEL, LOADING (DZ151KB)		8	1-693-726-11	TUNER (FM/AM)(EXCEPT RU, KR)	
2	3-077-331-21	+BV3 (3-CR)		9	3-363-099-22	SCREW (CASE 3 TP2) (DZ151KB)	
3	4-232-478-31	FOOT		9	3-363-099-51	SCREW (CASE 3 TP2) (DZ150K)	
4	A-1222-501-A	IO-S-OUT BOARD, COMPLETE	(EXCEPT EA, RU)	10	2-889-996-11	CASE (DS) (DZ150K)	
4	A-1239-708-A	IO-S-OUT BOARD, COMPLETE (EA)		10	2-889-996-31	CASE (DS) (DZ151KB)	
4	A-1256-653-A	IO-S-OUT BOARD, COMPLETE (RU)		11	3-077-331-11	+BV3 (3-CR)	
5	2-892-554-11	CASE (DIAT)(EXCEPT RU)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
6	2-892-739-01	LID (DIAT-P)(EXCEPT RU)		#2	7-685-862-09	SCREW +BVTT 2.6X6 (S)	
7	1-828-951-51	WIRE (FLAT TYPE) (9 CORE)					

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

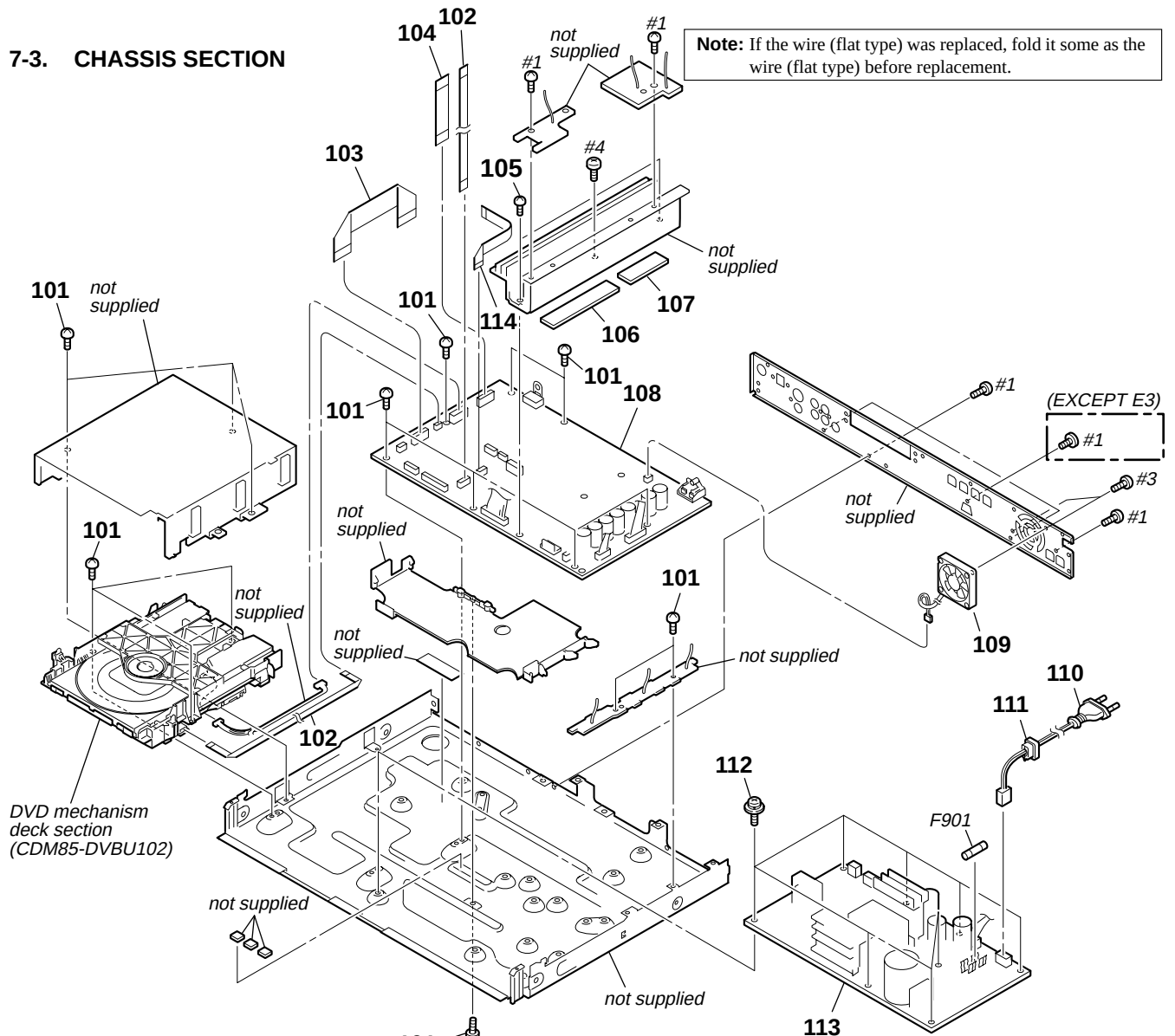
7-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	2-889-990-01	KNOB (VOL)		57	3-087-053-11	+BVTP2.6 (3CR)	
52	2-889-982-11	WINDOW, INDICATION (INJ) (DZ150K)		58	A-1222-521-A	JACK BOARD, COMPLETE (EXCEPT EA)	
52	2-889-982-71	WINDOW, INDICATION (INJ) (DZ151KB)		58	A-1239-706-A	JACK BOARD, COMPLETE (EA)	
53	2-898-988-01	SHEET (DS WINDOW), ADHESIVE		59	1-828-325-51	WIRE (FLAT TYPE) (13 CORE)	
54	2-889-981-21	PANEL, FRONT (AIO)		60	A-1222-520-A	FL BOARD, COMPLETE (EXCEPT EA)	
		(DZ150K: E3, SP, E12, E32, AR, AUS, RU, KR, TW/DZ151KB: MX)		60	A-1239-705-A	FL BOARD, COMPLETE (EA)	
54	2-889-981-71	PANEL, FRONT (AIO) (DZ151KB: E12, E32, RU)		61	1-828-374-51	WIRE (FLAT TYPE) (21 CORE)	
54	3-095-150-21	PANEL, FRONT (AIO) (EA)		62	3-531-576-01	RIVET	
55	2-889-992-01	FILTER, COLOR					
56	2-889-983-01	BUTTON (AIO)					

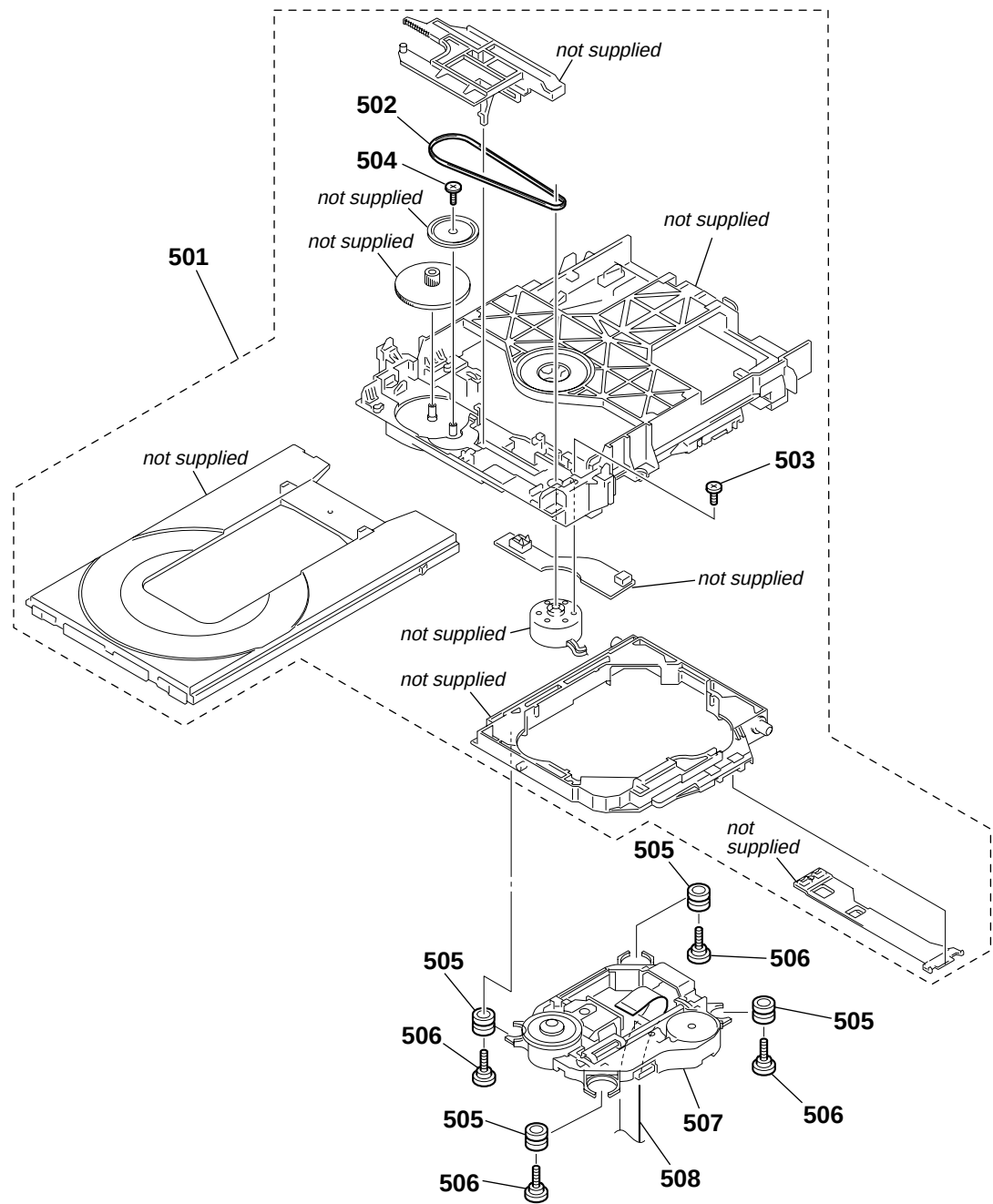
Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

7-3. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	3-077-331-21	+BV3 (3-CR)		△ 110	1-777-071-23	CORD, POWER (E3, SP, EA),	
102	1-828-292-51	WIRE (FLAT TYPE) (5 CORE)		△ 110	1-827-226-41	CORD, POWER (MX)	
103	1-828-349-51	WIRE (FLAT TYPE) (17 CORE)		△ 110	1-827-597-41	CORD, POWER (TW)	
104	1-828-316-51	WIRE (FLAT TYPE) (11 CORE)		△ 110	1-829-387-11	CORD, POWER (AR)	
105	3-077-331-11	+BV3 (3-CR)		△ 110	1-830-188-11	CORD, POWER (RU, E12, E32)	
106	2-597-972-11	SHEET, RADIATION (DZ150K: EA, AUS/DZ151KB: E12)		△ 111	3-703-244-00	BUSHING (2104), CORD (EXCEPT MX)	
106	3-100-158-11	SHEET, RADIATION (DZ150K: RU, E3, SP, E12, E32, AR, KR, TW/DZ151KB: MX, E32, RU)		△* 111	3-703-571-12	BUSHING (S) (4516), CORD (MX)	
107	2-597-972-21	SHEET, RADIATION (DZ150K: EA, AUS/DZ151KB: E12)		112	2-677-839-01	+PWH 3X8 (SUMITITE)	
107	3-100-158-21	SHEET, RADIATION (DZ150K: RU, E3, SP, E12, E32, AR, KR, TW/DZ151KB: MX, E32, RU)		113	A-1222-492-A	POWER BOARD, COMPLETE (RU)	
108	A-1242-695-A	MAIN BOARD, COMPLETE (E12)		113	A-1222-514-A	POWER BOARD, COMPLETE (AR, E3, SP, E12, AUS, KR)	
108	A-1242-716-A	MAIN BOARD, COMPLETE (TW)		113	A-1222-531-A	POWER BOARD, COMPLETE (E32)	
108	A-1242-724-A	MAIN BOARD, COMPLETE (AR)		113	A-1222-540-A	POWER BOARD, COMPLETE (MX)	
△ 108	A-1242-727-A	MAIN BOARD, COMPLETE (RU)		113	A-1242-988-A	POWER BOARD, COMPLETE (EA)	
108	A-1242-728-A	MAIN BOARD, COMPLETE (SP)		113	A-1248-173-A	POWER BOARD, COMPLETE (TW)	
108	A-1242-729-A	MAIN BOARD, COMPLETE (E3)		114	1-828-319-51	WIRE (FLAT TYPE) (11 CORE)	
108	A-1242-730-A	MAIN BOARD, COMPLETE (E32, MX)		△ F901	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5) (8A/125V) (MX, TW)	
△ 108	A-1249-182-A	MAIN BOARD, COMPLETE (AUS)		△ F901	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG) (T8AL/250V) (EA, E32)	
△ 108	A-1249-189-A	MAIN BOARD, COMPLETE (KR)		△ F901	1-576-233-51	FUSE (H.B.C.) (T6.3AH/250V, KR) (RU, AR, E3, SP, E12, AUS, KR)	
108	A-1253-102-A	MAIN BOARD, COMPLETE (EA)		#1	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3	
109	1-787-331-11	FAN, D.C.		#3	7-685-881-09	SCREW +BVTT 4X8 (S)	
△ 110	1-696-848-81	CORD, POWER (AUS)		#4	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-3	
△ 110	1-769-079-23	CORD, POWER (KR)					

7-4. DVD MECHANISM DECK SECTION (CDM85-DVBU102)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	A-6071-669-A	LOADING ASSY (M)		506	3-087-599-01	INSULATOR SCREW	
502	3-088-371-01	BELT		△ 507	8-820-321-05	OPTICAL PICK UP (KHM-313CAA/C2RP)	
503	4-974-725-11	SCREW (M1.7X2.5), P		508	1-828-773-51	WIRE (FLAT TYPE)(24 CORE)	
504	4-674-137-11	SCREW (PTP2X5)					
505	2-634-618-01	INSULATOR					

Note: If the wire (flat type) was replaced, fold it some as the wire (flat type) before replacement.

SECTION 8

ELECTRICAL PARTS LIST

DIAT-CON	FL
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NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS
uF: μ F
- COILS
uH: μ H

- RESISTORS
All resistors are in ohms.
METAL: Metal-film resistor.
METAL OXIDE: Metal oxide-film resistor.
F: nonflammable
- SEMICONDUCTORS
In each case, u: μ , for example:
uA. . : μ A. ., uPA. . : μ PA. .,
uPB. . : μ PB. ., uPC. . : μ PC. .,
uPD. . : μ PD. .
- Abbreviation
AR : Argentine model
AUS : Australian model
E3 : 220 – 240V AC area in E model
E12 : 220 – 240V AC area in E model
E32 : 110 – 240V AC area in E model
EA : Saudi Arabia model

When indicating parts by reference number, please include the board name.

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

The components identified by mark $\square$ contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

KR : Korean model
MX : Mexican model
RU : Russian model
SP : Singapore model
TW : Taiwan model

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
DIAT-CON BOARD (EXCEPT RU)				< DIODE >			
*****				D431	6-501-193-01	DIODE 1SS355WTE-17	
< CONNECTOR >				D432	6-501-193-01	DIODE 1SS355WTE-17	
DN1806	1-770-382-11	CONNECTOR, BOARD TO BOARD 12P		D801	6-501-193-01	DIODE 1SS355WTE-17	
DN1809	1-779-548-21	CONNECTOR, FFC (LIF (NON-ZIF)) 11P		D802	6-501-193-01	DIODE 1SS355WTE-17	
< JUMPER RESISTOR >				D803	6-501-169-01	DIODE UDW-TE17-6.2B	
JR001	1-216-296-11	SHORT CHIP	0	D804	6-501-193-01	DIODE 1SS355WTE-17	
JR002	1-216-296-11	SHORT CHIP	0	D805	6-501-193-01	DIODE 1SS355WTE-17	
JR003	1-216-864-11	SHORT CHIP	0	< IC >			
JR004	1-216-296-11	SHORT CHIP	0	IC801	6-600-349-21	IC NJL23H400A	
JR005	1-216-296-11	SHORT CHIP	0	IC802	8-759-643-83	IC uPD16315GB-3BS	
JR006	1-216-296-11	SHORT CHIP	0	< JUMPER RESISTOR >			
JR007	1-216-864-11	SHORT CHIP	0	JR801	1-216-864-11	SHORT CHIP	0
JR008	1-216-296-11	SHORT CHIP	0	JR802	1-216-864-11	SHORT CHIP	0
JR009	1-216-864-11	SHORT CHIP	0	JR807	1-216-864-11	SHORT CHIP	0
JR010	1-216-864-11	SHORT CHIP	0	JR808	1-216-864-11	SHORT CHIP	0
*****				< COIL >			
A-1222-520-A	FL BOARD, COMPLETE (EXCEPT EA)			L801	1-410-671-31	INDUCTOR	47uH
A-1239-705-A	FL BOARD, COMPLETE (EA)			L802	1-410-671-31	INDUCTOR	47uH
*****				< FLUORESCENT INDICATOR TUBE >			
< CAPACITOR >				ND001	1-451-590-11	VACUUM FLUORESCENT DISPLAYS	
C435	1-107-823-11	CERAMIC CHIP	0.47uF 10% 16V	< TRANSISTOR >			
C436	1-115-156-11	CERAMIC CHIP	1uF 10V	Q801	6-550-065-01	TRANSISTOR	CPH5504-TL-E
C800	1-162-968-11	CERAMIC CHIP	0.0047uF 10% 50V	< RESISTOR >			
C801	1-163-037-11	CERAMIC CHIP	0.022uF 10% 50V	R436	1-216-834-11	METAL CHIP	12K 5% 1/10W
C802	1-126-947-11	ELECT	47uF 20% 35V	R437	1-216-835-11	METAL CHIP	15K 5% 1/10W
C803	1-126-933-11	ELECT	100uF 20% 16V	R800	1-216-864-11	SHORT CHIP	0
C804	1-162-974-11	CERAMIC CHIP	0.01uF 50V	R801	1-216-839-11	METAL CHIP	33K 5% 1/10W
C805	1-164-360-11	CERAMIC CHIP	0.1uF 16V	R802	1-216-809-11	METAL CHIP	100 5% 1/10W
C809	1-126-157-11	ELECT	10uF 20% 16V	R804	1-216-828-11	METAL CHIP	3.9K 5% 1/10W
C811	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	R805	1-216-295-91	SHORT CHIP	0
C814	1-126-157-11	ELECT	10uF 20% 16V	R811	1-216-844-11	METAL CHIP	82K 5% 1/10W
C829	1-124-259-11	ELECT	4.7uF 20% 50V	R812	1-216-845-11	METAL CHIP	100K 5% 1/10W
< CONNECTOR >				R813	1-216-845-11	METAL CHIP	100K 5% 1/10W
DN801	1-779-558-11	CONNECTOR, FFC (LIF (NON-ZIF)) 21P	(EXCEPT EA)				
DN801	1-815-387-11	CONNECTOR, FPC/FFC 21P (EA)					
DN805	1-794-506-51	CONNECTOR, FFC/FPC 13P					

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FL IO-S-OUT

Ref. No.	Part No.	Description			Remark
R814	1-216-809-11	METAL CHIP	100	5%	1/10W
R815	1-216-809-11	METAL CHIP	100	5%	1/10W
R816	1-216-809-11	METAL CHIP	100	5%	1/10W
R819	1-216-805-11	METAL CHIP	47	5%	1/10W
R820	1-216-845-11	METAL CHIP	100K	5%	1/10W
< TRANSFORMER >					
T801	1-443-645-11	TRANSFORMER, DC CONVERTER			

A-1222-501-A	IO-S-OUT BOARD, COMPLETE				(EXCEPT EA, RU)
A-1239-708-A	IO-S-OUT BOARD, COMPLETE (EA)				
A-1256-653-A	IO-S-OUT BOARD, COMPLETE (RU)				

< CAPACITOR >					
C222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C228	1-126-916-11	ELECT	1000uF	20%	6.3V
C251	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C309	1-126-957-11	ELECT	0.22uF	20%	50V
C311	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C321	1-104-662-91	ELECT	22uF	20%	25V
C322	1-104-662-91	ELECT	22uF	20%	25V
C329	1-126-933-11	ELECT	100uF	20%	16V
C330	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C331	1-126-916-11	ELECT	1000uF	20%	6.3V
C332	1-126-933-11	ELECT	100uF	20%	16V
C333	1-126-933-11	ELECT	100uF	20%	16V
C334	1-126-916-11	ELECT	1000uF	20%	6.3V
C335	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C339	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C340	1-104-662-91	ELECT	22uF	20%	25V
C341	1-104-662-91	ELECT	22uF	20%	25V
C345	1-126-964-11	ELECT	100uF	20%	16V
C346	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C347	1-126-925-91	ELECT	470uF	20%	10V
C348	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C349	1-126-933-11	ELECT	100uF	20%	16V
C350	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C351	1-126-933-11	ELECT	100uF	20%	16V
C352	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C355	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C356	1-126-966-11	ELECT	33uF	20%	50V
C357	1-126-964-11	ELECT	10uF	20%	50V
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C360	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C361	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C362	1-126-964-11	ELECT	10uF	20%	50V
C363	1-126-933-11	ELECT	100uF	20%	16V
C364	1-126-933-11	ELECT	100uF	20%	16V
C365	1-162-921-11	CERAMIC CHIP	33PF	5%	50V
C367	1-126-964-11	ELECT	10uF	20%	50V
C368	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C369	1-126-933-11	ELECT	100uF	20%	16V
C371	1-104-662-91	ELECT	22uF	20%	25V
C372	1-104-662-91	ELECT	22uF	20%	25V
C373	1-104-662-91	ELECT	22uF	20%	25V
C374	1-104-662-91	ELECT	22uF	20%	25V
C375	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V

(RU)

Ref. No.	Part No.	Description	Remark		
C376	1-104-662-91	ELECT	22uF	20%	25V
C377	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
(RU)					
C383	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C384	1-126-933-11	ELECT	100uF	20%	16V
C385	1-126-960-11	ELECT	1uF	20%	50V
C386	1-126-960-11	ELECT	1uF	20%	50V
C387	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C388	1-127-573-11	CERAMIC CHIP	1uF	10%	16V
C389	1-126-947-11	ELECT	47uF	20%	35V
C390	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C391	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C392	1-126-933-11	ELECT	100uF	20%	16V
C393	1-126-960-11	ELECT	1uF	20%	50V
C394	1-126-957-11	ELECT	0.22uF	20%	50V
C396	1-126-960-11	ELECT	1uF	20%	50V
C397	1-126-964-11	ELECT	10uF	20%	50V
< CONNECTOR >					
CN302	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
CN304	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P (EXCEPT EA)			
CN305	1-568-828-11	CONNECTOR, FFC 9P			
CN307	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P (EXCEPT EA)			
CN307	1-815-381-11	CONNECTOR, FPC/FFC 5P (EA)			
CN309	1-779-285-11	CONNECTOR, FFC (LIF (NON-ZIF)) 17P (EXCEPT EA)			
CN309	1-793-600-11	CONNECTOR, FPC/FFC 17P (EA)			
< DIODE >					
D280	6-501-193-01	DIODE	1SS355WTE-17		
D281	6-501-193-01	DIODE	1SS355WTE-17		
D306	8-719-069-54	DIODE	UDZSTE-175.1B		
D307	6-501-193-01	DIODE	1SS355WTE-17		
D308	6-501-193-01	DIODE	1SS355WTE-17		
D309	8-719-058-24	DIODE	RB501V-40TE-17		
< IC >					
IC300	6-706-078-01	IC	M62429FP-TP		
IC303	8-759-385-76	IC	MC14052 BDR2		
IC305	8-759-832-10	IC	LA3210 A/B-E		
IC306	8-759-100-96	IC	uPC4558G2		
IC307	6-703-550-01	IC	TA7809LS		
IC308	6-710-470-01	IC	MM1758AFBE		
< JACK >					
J301	1-694-920-11	TERMINAL BOARD (S TERMINAL+1P) (MONITOR OUT)			
J303	1-820-784-11	JACK, PIN 5P (COMPONENT VIDEO OUT,TV/VIDEO)			
< COIL >					
L201	1-469-525-91	INDUCTOR	10uH		
L304	1-469-525-91	INDUCTOR	10uH		
L305	1-469-525-91	INDUCTOR	10uH		
< TRANSISTOR >					
Q302	8-729-027-52	TRANSISTOR	DTC124EKA-T146		

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
Q304	8-729-027-52	TRANSISTOR	DTC124EKA-T146				R402	1-218-827-11	METAL CHIP	150	0.5%		1/10W
Q305	8-729-027-52	TRANSISTOR	DTC124EKA-T146				R403	1-216-845-11	METAL CHIP	100K	5%		1/10W
Q307	8-729-027-52	TRANSISTOR	DTC124EKA-T146										
		< RESISTOR >					R404	1-216-845-11	METAL CHIP	100K	5%		1/10W
							R405	1-218-827-11	METAL CHIP	150	0.5%		1/10W
R227	1-218-285-11	METAL CHIP	75	5%	1/10W		R406	1-216-845-11	METAL CHIP	100K	5%		1/10W
R228	1-218-285-11	METAL CHIP	75	5%	1/10W		R407	1-216-845-11	METAL CHIP	100K	5%		1/10W
R229	1-218-285-11	METAL CHIP	75	5%	1/10W		R408	1-218-827-11	METAL CHIP	150	0.5%		1/10W
R305	1-216-833-11	METAL CHIP	10K	5%	1/10W								
R306	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R409	1-218-827-11	METAL CHIP	150	0.5%		1/10W
							R410	1-216-841-11	METAL CHIP	47K	5%		1/10W
R307	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R411	1-216-841-11	METAL CHIP	47K	5%		1/10W
R312	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R412	1-218-827-11	METAL CHIP	150	0.5%		1/10W
R314	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R413	1-218-827-11	METAL CHIP	150	0.5%		1/10W
R321	1-216-829-11	METAL CHIP	4.7K	5%	1/10W								
R323	1-218-285-11	METAL CHIP	75	5%	1/10W		R414	1-216-817-11	METAL CHIP	470	0.5%		1/10W (RU)
							R414	1-216-864-11	SHORT CHIP	0 (EXCEPT RU)			
R324	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R415	1-216-817-11	METAL CHIP	470	0.5%		1/10W (RU)
R325	1-216-864-11	SHORT CHIP	0										
R326	1-218-285-11	METAL CHIP	75	5%	1/10W		R415	1-216-864-11	SHORT CHIP	0 (EXCEPT RU)			
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R416	1-216-829-11	METAL CHIP	4.7K	5%		1/10W
R333	1-216-841-11	METAL CHIP	47K	5%	1/10W								
							R417	1-216-829-11	METAL CHIP	4.7K	5%		1/10W
R334	1-216-841-11	METAL CHIP	47K	5%	1/10W		R420	1-216-817-11	METAL CHIP	470	5%		1/10W
R339	1-218-285-11	METAL CHIP	75	5%	1/10W		R421	1-216-817-11	METAL CHIP	470	5%		1/10W
R340	1-216-833-11	METAL CHIP	10K	5%	1/10W		R426	1-216-864-11	SHORT CHIP	0			
R341	1-216-829-11	METAL CHIP	4.7K	5%	1/10W		R427	1-216-864-11	SHORT CHIP	0			
R342	1-216-841-11	METAL CHIP	47K	5%	1/10W								
							R430	1-216-830-11	METAL CHIP	5.6K	5%		1/10W
R343	1-216-841-11	METAL CHIP	47K	5%	1/10W		R436	1-216-833-11	METAL CHIP	10K	5%		1/10W
R348	1-216-833-11	METAL CHIP	10K	5%	1/10W		R437	1-216-830-11	METAL CHIP	5.6K	5%		1/10W
R349	1-216-833-11	METAL CHIP	10K	5%	1/10W		R438	1-216-833-11	METAL CHIP	10K	5%		1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W	*****							
R352	1-216-833-11	METAL CHIP	10K	5%	1/10W								
							A-1222-521-A	JACK BOARD, COMPLETE (EXCEPT EA)					
R353	1-216-833-11	METAL CHIP	10K	5%	1/10W		A-1239-706-A	JACK BOARD, COMPLETE (EA)					
R356	1-216-833-11	METAL CHIP	10K	5%	1/10W			*****					
R360	1-216-821-11	METAL CHIP	1K	5%	1/10W								
R361	1-216-809-11	METAL CHIP	100	5%	1/10W			< CAPACITOR >					
R363	1-216-841-11	METAL CHIP	47K	5%	1/10W								
							C401	1-124-589-11	ELECT	47uF	20%		16V
R364	1-216-841-11	METAL CHIP	47K	5%	1/10W		C403	1-124-584-00	ELECT	100uF	20%		10V
R365	1-216-841-11	METAL CHIP	47K	5%	1/10W		C404	1-107-826-11	CERAMIC CHIP	0.1uF	10%		16V
R366	1-216-841-11	METAL CHIP	47K	5%	1/10W		C405	1-107-826-11	CERAMIC CHIP	0.1uF	10%		16V
R367	1-216-833-11	METAL CHIP	10K	5%	1/10W		C406	1-124-584-00	ELECT	100uF	20%		10V
R373	1-216-833-11	METAL CHIP	10K	5%	1/10W								
							C410	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V
R374	1-216-845-11	METAL CHIP	100K	5%	1/10W		C411	1-126-157-11	ELECT	10uF	20%		16V
R375	1-216-864-11	SHORT CHIP	0				C412	1-164-315-11	CERAMIC CHIP	470PF	5%		50V
R378	1-216-864-11	SHORT CHIP	0				C413	1-162-960-11	CERAMIC CHIP	220PF	10%		50V
R379	1-216-833-11	METAL CHIP	10K	5%	1/10W		C420	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V
R381	1-216-864-11	SHORT CHIP	0										
							C421	1-126-157-11	ELECT	10uF	20%		16V
R382	1-216-833-11	METAL CHIP	10K	5%	1/10W		C422	1-164-315-11	CERAMIC CHIP	470PF	5%		50V
R383	1-216-837-11	METAL CHIP	22K	5%	1/10W		C423	1-162-960-11	CERAMIC CHIP	220PF	10%		50V
R387	1-216-815-11	METAL CHIP	330	5%	1/10W		C431	1-117-863-11	CERAMIC CHIP	0.47uF	10%		6.3V
R388	1-215-865-11	METAL OXIDE	220	5%	1W		C432	1-164-315-11	CERAMIC CHIP	470PF	5%		50V
R389	1-216-864-11	SHORT CHIP	0										
							C433	1-162-925-11	CERAMIC CHIP	68PF	5%		50V
R390	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (EA)		C434	1-110-563-11	CERAMIC CHIP	0.068uF	10%		16V
							C440	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V
R390	1-216-829-11	METAL CHIP	4.7K	5%	1/10W (EXCEPT EA)		C441	1-126-157-11	ELECT	10uF	20%		16V
							C442	1-164-315-11	CERAMIC CHIP	470PF	5%		50V
R392	1-216-833-11	METAL CHIP	10K	5%	1/10W								
R394	1-216-821-11	METAL CHIP	1K	5%	1/10W		C443	1-162-960-11	CERAMIC CHIP	220PF	10%		50V
R396	1-216-833-11	METAL CHIP	10K	5%	1/10W		C471	1-124-222-91	ELECT	22uF	20%		6.3V
							C491	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V
R398	1-216-833-11	METAL CHIP	10K	5%	1/10W		C493	1-162-964-11	CERAMIC CHIP	0.001uF	10%		50V
R399	1-216-833-11	METAL CHIP	10K	5%	1/10W		C849	1-162-970-11	CERAMIC CHIP	0.01uF	10%		25V
R400	1-216-821-11	METAL CHIP	1K	5%	1/10W								

HCD-DZ150K/DZ151KB

Ver. 1.1

JACK MAIN

Ref. No.	Part No.	Description	Remark
< CONNECTOR >			
CN806	1-779-550-21	CONNECTOR, FFC (LIF (NON-ZIF)) 13P	(EXCEPT EA)
CN806	1-818-172-11	CONNECTOR, FPC/FFC 13P (EA)	
< DIODE >			
D470	6-501-193-01	DIODE 1SS355WTE-17	
D492	6-501-193-01	DIODE 1SS355WTE-17	
D493	6-501-193-01	DIODE 1SS355WTE-17	
D496	6-501-193-01	DIODE 1SS355WTE-17	
D497	6-501-193-01	DIODE 1SS355WTE-17	
< FERRITE BEAD >			
FB470	1-500-236-22	BEAD, FERRITE (CHIP) (1608)	
FB471	1-500-236-22	BEAD, FERRITE (CHIP) (1608)	
FB474	1-500-236-22	BEAD, FERRITE (CHIP) (1608)	
FB475	1-500-236-22	BEAD, FERRITE (CHIP) (1608)	
< IC >			
IC401	8-759-100-96	IC uPC4558G2	
IC402	8-759-100-96	IC uPC4558G2	
< JACK >			
J401	1-819-878-21	JACK (AUDIO IN/MIC1/A.CAL MIC)	
J402	1-819-878-21	JACK (MIC2)	
< JUMPER RESISTOR >			
JR816	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >			
Q470	1-801-806-11	TRANSISTOR DTC144EKA	
Q471	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q473	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q474	8-729-027-24	TRANSISTOR DTA114TKA-T146	
Q475	1-801-806-11	TRANSISTOR DTC144EKA	
< RESISTOR >			
R401	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R402	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R403	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R404	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R405	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R410	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R411	1-216-817-11	METAL CHIP 470 5% 1/10W	
R412	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R413	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R414	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R415	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R416	1-216-801-11	METAL CHIP 22 5% 1/10W	
R420	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R421	1-216-817-11	METAL CHIP 470 5% 1/10W	
R422	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R423	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R424	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R431	1-216-864-11	SHORT CHIP 0	
R432	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R433	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R434	1-216-864-11	SHORT CHIP 0	

Ref. No.	Part No.	Description	Remark
R435	1-216-857-11	METAL CHIP 1M 5% 1/10W	
R440	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R441	1-216-817-11	METAL CHIP 470 5% 1/10W	
R442	1-216-837-11	METAL CHIP 22K 5% 1/10W	
R443	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R444	1-216-835-11	METAL CHIP 15K 5% 1/10W	
R470	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R471	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R472	1-216-819-11	METAL CHIP 680 5% 1/10W	
R478	1-216-809-11	METAL CHIP 100 5% 1/10W	
R480	1-216-805-11	METAL CHIP 47 5% 1/10W	
R481	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R482	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R490	1-216-864-11	SHORT CHIP 0	
R491	1-216-864-11	SHORT CHIP 0	
R492	1-216-864-11	SHORT CHIP 0	
R851	1-216-864-11	SHORT CHIP 0	
R852	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R853	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R854	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R855	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R856	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R857	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R858	1-216-864-11	SHORT CHIP 0	
< SWITCH >			
S800	1-418-725-51	ENCODER, ROTARY (12 TYPE) (VOLUME)	
S802	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)	
S803	1-762-875-21	SWITCH, KEYBOARD (◀◀◀)	
S804	1-762-875-21	SWITCH, KEYBOARD (◀◀)	
S805	1-762-875-21	SWITCH, KEYBOARD (◀)	
S806	1-762-875-21	SWITCH, KEYBOARD (▶▶▶)	
S807	1-762-875-21	SWITCH, KEYBOARD (▶▶)	
S808	1-762-875-21	SWITCH, KEYBOARD (▶)	

A	A-1242-695-A	MAIN BOARD, COMPLETE (E12)	
	A-1242-724-A	MAIN BOARD, COMPLETE (AR)	
	A-1242-727-A	MAIN BOARD, COMPLETE (RU)	
	A-1242-729-A	MAIN BOARD, COMPLETE (E3)	
	A-1242-730-A	MAIN BOARD, COMPLETE (E32, MX)	
A	A-1249-182-A	MAIN BOARD, COMPLETE (AUS)	
	A-1253-101-A	MAIN BOARD, COMPLETE (SP)	
	A-1253-102-A	MAIN BOARD, COMPLETE (EA)	

< CAPACITOR >			
C450	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C451	1-126-947-11	ELECT 47uF 20% 35V	
C452	1-126-947-11	ELECT 47uF 20% 35V	
C453	1-162-970-11	CERAMIC CHIP 0.01uF 10% 25V	
C454	1-126-960-11	ELECT 1uF 20% 50V	
C455	1-126-947-11	ELECT 47uF 20% 35V	
C456	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C457	1-104-662-91	ELECT 22uF 20% 25V	
C458	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
C459	1-126-947-11	ELECT 47uF 20% 35V	
C460	1-126-961-11	ELECT 2.2uF 20% 50V	
C461	1-126-961-11	ELECT 2.2uF 20% 50V	
C462	1-126-947-11	ELECT 47uF 20% 35V	
C463	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C464	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C465	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1112	1-128-994-21	ELECT CHIP	47uF	20%	10V
C466	1-126-947-11	ELECT	47uF	20%	35V	C1113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
				(EXCEPT E3, EA, AUS)		C1114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C467	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
				(EXCEPT E3, EA, AUS)		C1116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C468	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C1117	1-124-779-00	ELECT CHIP	10uF	20%	16V
				(EXCEPT E3, EA, AUS)		C1118	1-126-964-11	ELECT	10uF	20%	50V
C469	1-126-964-11	ELECT	10uF	20%	50V	C1119	1-126-964-11	ELECT	10uF	20%	50V
				(EXCEPT E3, EA, AUS)							
C470	1-126-947-11	ELECT	47uF	20%	35V	C1120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
				(EXCEPT E3, EA, AUS)		C1121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C471	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	C1122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
				(EXCEPT E3, EA, AUS)		C1123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C1126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1128	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C1132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C509	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C1136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C1138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C520	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V						
C521	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1145	1-124-779-00	ELECT CHIP	10uF	20%	16V
						C1146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C522	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C1147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C524	1-126-947-11	ELECT	47uF	20%	35V	C1149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C526	1-104-658-91	ELECT	100uF	20%	10V	C1150	1-124-779-00	ELECT CHIP	10uF	20%	16V
						C1151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C527	1-126-916-11	ELECT	1000uF	20%	6.3V	C1152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C528	1-126-916-11	ELECT	1000uF	20%	6.3V	C1153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C529	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	C1154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V						
C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C1156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1157	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C535	1-126-947-11	ELECT	47uF	20%	35V	C1160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C536	1-126-947-11	ELECT	47uF	20%	35V						
C538	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C1161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C1162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
				(EXCEPT RU)		C1164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C705	1-126-964-11	ELECT	10uF	20%	50V	C1169	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C706	1-126-964-11	ELECT	10uF	20%	50V						
C707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1170	1-124-779-00	ELECT CHIP	10uF	20%	16V
C708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1171	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
						C1172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C717	1-126-964-11	ELECT	10uF	20%	50V	C1173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C718	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						
C1102	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	C1175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1105	1-126-947-11	ELECT	47uF	20%	35V	C1176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
						C1177	1-126-947-11	ELECT	47uF	20%	35V
C1106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

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MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C1180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3017	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1182	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1183	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V	C3019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1186	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3021	1-126-947-11	ELECT	47uF	20%	35V
C1187	1-126-947-11	ELECT	47uF	20%	35V	C3022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1190	1-104-658-91	ELECT	100uF	20%	10V	C3023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3024	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1193	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1195	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	C3027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C3029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C3030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3031	1-126-947-11	ELECT	47uF	20%	35V
C1205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C3032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V	C3033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C3035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3036	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C3037	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3038	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3039	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3040	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3051	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C1217	1-126-947-11	ELECT	47uF	20%	35V	C3052	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1218	1-126-964-11	ELECT	10uF	20%	50V	C3053	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3054	1-126-933-11	ELECT	100uF	20%	16V
C1220	1-126-964-11	ELECT	10uF	20%	50V	C3055	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3056	1-126-923-91	ELECT	220uF	20%	10V
C1222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3057	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1223	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3058	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C1224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3059	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1225	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3060	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C1226	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3067	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	C3068	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1602	1-128-994-21	ELECT CHIP	47uF	20%	10V	C3069	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1603	1-128-994-21	ELECT CHIP	47uF	20%	10V	C3070	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C2103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3071	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C2104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3072	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3073	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C2106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3091	1-126-934-11	ELECT	220uF	20%	16V
C2107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3100	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C2108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3103	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C2110	1-104-658-91	ELECT	100uF	20%	10V	C3104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C2111	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V	C3105	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C2114	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3106	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C2130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3107	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3000	1-126-382-11	ELECT	100uF	20%	16V	C3108	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3001	1-126-947-11	ELECT	47uF	20%	35V	C3109	1-112-246-11	ELECT	100uF	20%	35V
C3002	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V	C3112	1-112-246-11	ELECT	100uF	20%	35V
C3011	1-126-947-11	ELECT	47uF	20%	35V	C3113	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3114	1-136-177-00	FILM	1uF	5%	50V
C3013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3115	1-136-177-00	FILM	1uF	5%	50V
C3014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3116	1-112-831-11	ELECT	2200uF	20%	35V
C3015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
						C3123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C3124	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C3314	1-136-177-00	FILM	1uF	5%	50V
C3125	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C3315	1-136-177-00	FILM	1uF	5%	50V
C3126	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C3316	1-112-831-11	ELECT	2200uF	20%	35V
C3127	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C3322	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3128	1-164-505-11	CERAMIC CHIP	2.2uF		16V	C3323	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3129	1-117-370-11	CERAMIC CHIP	10uF		10V	C3400	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3150	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C3403	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3153	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	C3404	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3154	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C3405	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3155	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	C3406	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3156	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	C3407	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3157	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	C3408	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3158	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C3409	1-112-246-11	ELECT	100uF	20%	35V
C3159	1-112-246-11	ELECT	100uF	20%	35V	C3412	1-112-246-11	ELECT	100uF	20%	35V
C3162	1-112-246-11	ELECT	100uF	20%	35V	C3413	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3163	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C3414	1-136-177-00	FILM	1uF	5%	50V
C3164	1-136-177-00	FILM	1uF	5%	50V	C3415	1-136-177-00	FILM	1uF	5%	50V
C3165	1-136-177-00	FILM	1uF	5%	50V	C3416	1-112-831-11	ELECT	2200uF	20%	35V
C3166	1-112-831-11	ELECT	2200uF	20%	35V	C3422	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3172	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3423	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3551	1-126-960-11	ELECT	1uF	20%	50V
C3200	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C3552	1-126-964-11	ELECT	10uF	20%	50V
C3203	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	C3553	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3204	1-164-156-11	CERAMIC CHIP	0.1uF		25V	C3556	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3205	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	C3901	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3206	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	C3902	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3207	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	C3903	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3208	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C3904	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3209	1-112-246-11	ELECT	100uF	20%	35V	C3911	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C3212	1-112-246-11	ELECT	100uF	20%	35V	C3912	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C3213	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C3913	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C3214	1-136-177-00	FILM	1uF	5%	50V	C3914	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C3215	1-136-177-00	FILM	1uF	5%	50V	C4501	1-117-370-11	CERAMIC CHIP	10uF		10V
C3216	1-112-831-11	ELECT	2200uF	20%	35V	C4502	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3250	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	C4504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3253	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	< CONNECTOR >					
C3254	1-164-156-11	CERAMIC CHIP	0.1uF		25V	CN451	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYNSC OUT)(EXCEPT E3, EA, AUS)			
C3255	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	CN502	1-778-692-51	CONNECTOR, FFC/FPC 21P			
C3256	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	CN503	1-784-368-51	CONNECTOR, FFC/FPC 9P			
C3257	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	CN607	1-784-376-51	CONNECTOR, FFC/FPC 17P			
C3258	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	CN651	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P (EXCEPT RU)			
C3259	1-112-246-11	ELECT	100uF	20%	35V	CN702	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P (EXCEPT EA)			
C3262	1-112-246-11	ELECT	100uF	20%	35V	CN702	1-815-381-11	CONNECTOR, FPC/FFC 5P (EA)			
C3263	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	CN1101	1-815-763-32	CONNECTOR, FFC/FPC 24P			
C3264	1-136-177-00	FILM	1uF	5%	50V	CN1103	1-784-365-51	CONNECTOR, FFC/FPC 5P			
C3265	1-136-177-00	FILM	1uF	5%	50V	* CN1105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
C3266	1-112-831-11	ELECT	2200uF	20%	35V	* CN1201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P			
C3300	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V	CN1202	1-784-365-51	CONNECTOR, FFC/FPC 5P			
C3303	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	CN3000	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P			
C3304	1-164-156-11	CERAMIC CHIP	0.1uF		25V	CN3002	1-785-102-11	PIN, CONNECTOR (3.96mm PITCH) 4P			
C3305	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V	CN4302	1-784-370-51	CONNECTOR, FFC/FPC 11P			
C3306	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	< DIODE >					
C3307	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V	D451	6-501-579-01	DIODE MC2837			
C3308	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V						
C3309	1-112-246-11	ELECT	100uF	20%	35V						
C3312	1-112-246-11	ELECT	100uF	20%	35V						
C3313	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V						

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Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D453	6-501-579-01	DIODE MC2837		FB2121	1-469-118-21	FERRITE, EMI (SMD) (1608)	
D455	6-501-579-01	DIODE MC2837		FB2122	1-469-118-21	FERRITE, EMI (SMD) (1608)	
D456	6-501-579-01	DIODE MC2837		FB2123	1-469-118-21	FERRITE, EMI (SMD) (1608)	
D460	8-719-083-58	DIODE UDZSTE-173.9B (EXCEPT E3, EA, AUS)		FB2124	1-469-118-21	FERRITE, EMI (SMD) (1608)	
				FB2125	1-469-118-21	FERRITE, EMI (SMD) (1608)	
D501	6-501-193-01	DIODE 1SS355WTE-17		FB3051	1-216-295-91	SHORT CHIP 0	
D502	6-501-193-01	DIODE 1SS355WTE-17				< FILTER >	
D504	6-501-193-01	DIODE 1SS355WTE-17					
D505	6-500-334-01	DIODE MC2836-T112-1		FL1111	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
D701	6-501-579-01	DIODE MC2837		FL4501	1-234-177-21	FILTER, CHIP EMI	
						< IC >	
D3071	6-501-193-01	DIODE 1SS355WTE-17		IC451	8-759-710-97	IC NJM4565M-D	
D3072	6-501-193-01	DIODE 1SS355WTE-17		IC452	8-759-700-07	IC NJM2903M	
D3073	6-501-193-01	DIODE 1SS355WTE-17		IC453	8-759-700-07	IC NJM2903M	
D3551	6-501-579-01	DIODE MC2837		IC454	8-759-100-96	IC uPC4558G2 (EXCEPT E3, EA, AUS)	
D4111	6-501-696-01	DIODE RSA39LATE25		IC501	6-807-088-01	IC M30622MEP-B03FPUO	
D4112	6-501-696-01	DIODE RSA39LATE25		IC502	6-702-302-01	IC TK11133CSCL-G	
D4151	6-501-696-01	DIODE RSA39LATE25		IC503	6-708-922-01	IC PST3635NR	
D4152	6-501-696-01	DIODE RSA39LATE25		IC504	6-709-034-01	IC NJM2887DL3 (TE2)	
D4201	6-501-696-01	DIODE RSA39LATE25		IC651	6-706-487-01	IC TC7SH08FU (T5RSOYJF)(EXCEPT RU)	
D4202	6-501-696-01	DIODE RSA39LATE25		IC772	6-710-554-01	IC PCM1808PWR	
D4251	6-501-696-01	DIODE RSA39LATE25		IC1101	6-710-093-01	IC CXD9889R	
D4252	6-501-696-01	DIODE RSA39LATE25		IC1102	6-807-168-01	IC S29AL032D70TF-OBA1-0701UC	
D4301	6-501-696-01	DIODE RSA39LATE25				(AR, E32, MX)	
D4302	6-501-696-01	DIODE RSA39LATE25		IC1102	6-807-169-01	IC S29AL032D70TF-OBA1-0701CE	
D4401	6-501-696-01	DIODE RSA39LATE25				(E3, EA, E12, AUS)	
				IC1102	6-807-170-01	IC S29AL032D70TF-OBA1-0701GA (SP)	
D4402	6-501-696-01	DIODE RSA39LATE25		IC1103	not supplied	IC BR24L64F-WE2	
		< TERMINAL GROUND >					
EB505	1-537-738-21	TERMINAL, GROUND (EA)		IC1104	6-709-370-01	IC A2V64S40CTP-G75	
EB702	1-537-738-21	TERMINAL, GROUND (EA)		IC1105	6-702-302-01	IC TK11133CSCL-G	
EB1701	1-537-738-21	TERMINAL, GROUND (EA)		IC1107	6-702-302-01	IC TK11133CSCL-G	
EB1703	1-537-738-21	TERMINAL, GROUND (EA)		IC1110	6-707-739-01	IC MM1661JTRE	
EB3001	1-537-738-21	TERMINAL, GROUND (EA)		IC1111	6-704-100-01	IC TC7PAU04FU (TE85R)	
EB3002	1-537-738-21	TERMINAL, GROUND (EA)		IC1201	6-704-524-01	IC FAN8036L	
EB3003	1-537-738-21	TERMINAL, GROUND (EA)		IC3003	8-759-680-48	IC TC7WH157FK (TE85R)	
EB3004	1-537-738-21	TERMINAL, GROUND (EA)		IC3010	6-707-939-01	IC CXD9843AR	
		< FERRITE BEAD >		IC3020	6-707-939-01	IC CXD9843AR	
FB504	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3030	6-707-939-01	IC CXD9843AR	
FB505	1-469-324-21	FERRITE, EMI (SMD) (2012)					
FB506	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3050	6-702-300-01	IC TK11118CSCL-G	
FB507	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3051	6-706-492-01	IC TC7SHU04FU (T5RSOJF)	
FB508	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3100	6-708-921-01	IC CXD9883M	
				IC3150	6-708-921-01	IC CXD9883M	
FB509	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3200	6-708-921-01	IC CXD9883M	
FB510	1-469-324-21	FERRITE, EMI (SMD) (2012)					
FB1106	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3250	6-708-921-01	IC CXD9883M	
FB1107	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3300	6-708-921-01	IC CXD9883M	
FB1108	1-469-324-21	FERRITE, EMI (SMD) (2012)		IC3400	6-708-921-01	IC CXD9883M	
				IC4501	8-759-573-97	IC SN74LVC541APWR	
FB1111	1-469-670-21	FERRITE, EMI (SMD) (2012)				< COIL >	
FB1112	1-469-670-21	FERRITE, EMI (SMD) (2012)		L701	1-414-754-11	INDUCTOR 10uH	
FB1115	1-469-670-21	FERRITE, EMI (SMD) (2012)		L3000	1-469-527-91	INDUCTOR 47uH	
FB1123	1-469-324-21	FERRITE, EMI (SMD) (2012)		L3051	1-414-754-11	INDUCTOR 10uH	
FB1601	1-469-324-21	FERRITE, EMI (SMD) (2012)		L3052	1-414-754-11	INDUCTOR 10uH	
				L3053	1-414-754-11	INDUCTOR 10uH	
FB1602	1-469-324-21	FERRITE, EMI (SMD) (2012)					
FB1603	1-469-324-21	FERRITE, EMI (SMD) (2012)		L3054	1-412-939-11	INDUCTOR 1uH	
FB2101	1-469-324-21	FERRITE, EMI (SMD) (2012)		L3111	1-456-680-11	INDUCTOR 10uH	
FB2103	1-469-324-21	FERRITE, EMI (SMD) (2012)		L3112	1-456-680-11	INDUCTOR 10uH	
FB2120	1-469-118-21	FERRITE, EMI (SMD) (1608)					

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
L3151	1-456-680-11	INDUCTOR	10uH			R462	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
L3152	1-456-680-11	INDUCTOR	10uH			R463	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
						R464	1-216-841-11	METAL CHIP	47K	5%	1/10W
L3201	1-456-680-11	INDUCTOR	10uH			R465	1-216-837-11	METAL CHIP	22K	5%	1/10W
L3202	1-456-680-11	INDUCTOR	10uH			R466	1-216-842-11	METAL CHIP	56K	5%	1/10W
L3251	1-456-680-11	INDUCTOR	10uH			R467	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
L3252	1-456-680-11	INDUCTOR	10uH			R469	1-216-833-11	METAL CHIP	10K	5%	1/10W
L3301	1-456-680-11	INDUCTOR	10uH			R470	1-216-833-11	METAL CHIP	10K	5%	1/10W
L3302	1-456-680-11	INDUCTOR	10uH			R471	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
L3401	1-456-680-11	INDUCTOR	10uH			R473	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L3402	1-456-680-11	INDUCTOR	10uH			R474	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L3901	1-457-077-11	AIR-CORE COIL (EXCEPT EA)				R476	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L3901	1-457-077-21	AIR-CORE COIL (EA)				R477	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L3902	1-457-078-11	AIR-CORE COIL (EXCEPT EA)				R479	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L3902	1-457-078-21	AIR-CORE COIL (EA)				R480	1-216-864-11	SHORT CHIP	0		
L3903	1-457-077-11	AIR-CORE COIL (EXCEPT EA)				R481	1-216-864-11	SHORT CHIP	0		
L3903	1-457-077-21	AIR-CORE COIL (EA)				R482	1-216-864-11	SHORT CHIP	0		
L3904	1-457-078-11	AIR-CORE COIL (EXCEPT EA)				R483	1-216-864-11	SHORT CHIP	0		
L3904	1-457-078-21	AIR-CORE COIL (EA)				R484	1-216-864-11	SHORT CHIP	0		
		< TRANSISTOR >				R487	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT E3, EA, AUS)
Q503	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R488	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT E3, EA, AUS)
Q504	6-550-718-01	TRANSISTOR	RSR025N03TL			△R489	1-260-320-11	CARBON	220	5%	1/2W F (EXCEPT E3, EA, AUS)
Q631	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R490	1-216-842-11	METAL CHIP	56K	5%	1/10W (EXCEPT E3, EA, AUS)
Q632	8-729-120-28	TRANSISTOR	2SC1623-L5L6								
Q1101	6-550-008-01	TRANSISTOR	UM6K1N-TN			R491	1-216-817-11	METAL CHIP	470	5%	1/10W (EXCEPT E3, EA, AUS)
Q1102	6-550-653-01	TRANSISTOR	QST8TR			R492	1-216-835-11	METAL CHIP	15K	5%	1/10W (EXCEPT E3, EA, AUS)
Q1103	8-729-027-52	TRANSISTOR	DTC124EKA-T146			R493	1-216-845-11	METAL CHIP	100K	5%	1/10W (EXCEPT E3, EA, AUS)
Q3000	8-729-142-48	TRANSISTOR	2SD1616-TP-LK			R494	1-216-864-11	SHORT CHIP	0 (RU, E3, EA, AUS)		
Q3001	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R501	1-216-857-11	METAL CHIP	1M	5%	1/10W
Q3002	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R504	1-216-821-11	METAL CHIP	1K	5%	1/10W (SP)
Q3101	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-216-833-11	METAL CHIP	10K	5%	1/10W (E3, EA)
Q3102	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-216-835-11	METAL CHIP	15K	5%	1/10W (AUS)
Q3151	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-216-841-11	METAL CHIP	47K	5%	1/10W (RU, AR, E32, MX)
Q3152	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (E12)
Q3201	8-729-600-22	TRANSISTOR	2SA1235-F			R505	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (RU)
Q3202	8-729-600-22	TRANSISTOR	2SA1235-F			R505	1-216-833-11	METAL CHIP	10K	5%	1/10W (E32, MX)
Q3251	8-729-600-22	TRANSISTOR	2SA1235-F			R505	1-216-841-11	METAL CHIP	47K	5%	1/10W (E3, EA, E12, AUS)
Q3252	8-729-600-22	TRANSISTOR	2SA1235-F			R505	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (AR)
Q3301	8-729-600-22	TRANSISTOR	2SA1235-F			R506	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
Q3302	8-729-600-22	TRANSISTOR	2SA1235-F			R507	1-216-841-11	METAL CHIP	47K	5%	1/10W
Q3401	8-729-600-22	TRANSISTOR	2SA1235-F			R508	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q3402	8-729-600-22	TRANSISTOR	2SA1235-F			R509	1-216-809-11	METAL CHIP	100	5%	1/10W
Q3551	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R510	1-216-833-11	METAL CHIP	10K	5%	1/10W
Q3552	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R511	1-216-821-11	METAL CHIP	1K	5%	1/10W
Q3553	8-729-120-28	TRANSISTOR	2SC1623-L5L6			R512	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< RESISTOR >				R513	1-216-821-11	METAL CHIP	1K	5%	1/10W
R146	1-216-805-11	METAL CHIP	47	5%	1/10W	R514	1-216-833-11	METAL CHIP	10K	5%	1/10W
R451	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R452	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R453	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R454	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R455	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R456	1-216-853-11	METAL CHIP	470K	5%	1/10W						
R457	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R458	1-216-864-11	SHORT CHIP	0								
R459	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R460	1-216-851-11	METAL CHIP	330K	5%	1/10W						
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W						

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Ref. No.	Part No.	Description			Remark
R515	1-216-821-11	METAL CHIP	1K	5%	1/10W
R516	1-216-821-11	METAL CHIP	1K	5%	1/10W
R517	1-216-809-11	METAL CHIP	100	5%	1/10W
R518	1-216-809-11	METAL CHIP	100	5%	1/10W
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W
R527	1-216-833-11	METAL CHIP	10K	5%	1/10W
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W
R529	1-216-821-11	METAL CHIP	1K	5%	1/10W
R530	1-216-809-11	METAL CHIP	100	5%	1/10W
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W
R532	1-216-821-11	METAL CHIP	1K	5%	1/10W
R533	1-216-809-11	METAL CHIP	100	5%	1/10W
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W
R535	1-216-809-11	METAL CHIP	100	5%	1/10W
R536	1-216-864-11	SHORT CHIP	0		
R539	1-216-833-11	METAL CHIP	10K	5%	1/10W
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W
R542	1-216-833-11	METAL CHIP	10K	5%	1/10W
R546	1-216-833-11	METAL CHIP	10K	5%	1/10W
R550	1-216-821-11	METAL CHIP	1K	5%	1/10W
R552	1-216-821-11	METAL CHIP	1K	5%	1/10W
R554	1-216-833-11	METAL CHIP	10K	5%	1/10W
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W
R556	1-216-841-11	METAL CHIP	47K	5%	1/10W
R557	1-216-841-11	METAL CHIP	47K	5%	1/10W
R558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R559	1-216-833-11	METAL CHIP	10K	5%	1/10W
R560	1-216-833-11	METAL CHIP	10K	5%	1/10W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R562	1-216-841-11	METAL CHIP	47K	5%	1/10W
R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R564	1-216-864-11	SHORT CHIP	0		
R565	1-216-864-11	SHORT CHIP	0		
R566	1-216-864-11	SHORT CHIP	0		
R567	1-216-864-11	SHORT CHIP	0		
R568	1-216-864-11	SHORT CHIP	0		
R569	1-216-864-11	SHORT CHIP	0		
R572	1-218-751-11	METAL CHIP	300K	0.5%	1/10W
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W
R575	1-216-821-11	METAL CHIP	1K	5%	1/10W
R576	1-216-821-11	METAL CHIP	1K	5%	1/10W
R577	1-216-841-11	METAL CHIP	47K	5%	1/10W
R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W
R580	1-216-809-11	METAL CHIP	100	5%	1/10W
R581	1-216-809-11	METAL CHIP	100	5%	1/10W
R583	1-216-841-11	METAL CHIP	47K	5%	1/10W
R586	1-216-833-11	METAL CHIP	10K	5%	1/10W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R589	1-216-295-91	SHORT CHIP	0		
R590	1-216-295-91	SHORT CHIP	0		
R596	1-216-295-91	SHORT CHIP	0		
R597	1-216-295-91	SHORT CHIP	0		
R598	1-216-296-11	SHORT CHIP	0		
R599	1-216-295-91	SHORT CHIP	0		
R601	1-216-864-11	SHORT CHIP	0		
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R604	1-216-809-11	METAL CHIP	100	5%	1/10W
R605	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R606	1-216-809-11	METAL CHIP	100	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W
R609	1-216-809-11	METAL CHIP	100	5%	1/10W
R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R612	1-216-809-11	METAL CHIP	100	5%	1/10W
R613	1-216-809-11	METAL CHIP	100	5%	1/10W
R614	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-809-11	METAL CHIP	100	5%	1/10W
R631	1-216-833-11	METAL CHIP	10K	5%	1/10W
R632	1-216-841-11	METAL CHIP	47K	5%	1/10W
R636	1-216-864-11	SHORT CHIP	0		
R637	1-216-809-11	METAL CHIP	100	5%	1/10W
R638	1-216-809-11	METAL CHIP	100	5%	1/10W
R640	1-216-809-11	METAL CHIP	100	5%	1/10W
R641	1-216-809-11	METAL CHIP	100	5%	1/10W
R642	1-216-809-11	METAL CHIP	100	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R652	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R653	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R654	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R655	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R656	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R657	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R658	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R659	1-216-809-11	METAL CHIP	100	5%	1/10W
R691	1-216-864-11	SHORT CHIP	0		
R692	1-216-864-11	SHORT CHIP	0		
R693	1-216-864-11	SHORT CHIP	0		
R694	1-216-864-11	SHORT CHIP	0		
R695	1-216-864-11	SHORT CHIP	0		
R696	1-216-864-11	SHORT CHIP	0		
R701	1-216-813-11	METAL CHIP	220	5%	1/10W
R702	1-216-864-11	SHORT CHIP	0		
R721	1-216-864-11	SHORT CHIP	0		
R770	1-216-809-11	METAL CHIP	100	5%	1/10W
R775	1-216-801-11	METAL CHIP	22	5%	1/10W
R776	1-216-801-11	METAL CHIP	22	5%	1/10W
R777	1-216-801-11	METAL CHIP	22	5%	1/10W
R778	1-216-864-11	SHORT CHIP	0		
R780	1-216-805-11	METAL CHIP	47	5%	1/10W
R781	1-216-805-11	METAL CHIP	47	5%	1/10W
R782	1-216-801-11	METAL CHIP	22	5%	1/10W
R783	1-216-801-11	METAL CHIP	22	5%	1/10W
R784	1-216-801-11	METAL CHIP	22	5%	1/10W
R785	1-216-801-11	METAL CHIP	22	5%	1/10W
R786	1-216-295-91	SHORT CHIP	0		
R790	1-216-864-11	SHORT CHIP	0		
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W
R1102	1-216-295-91	SHORT CHIP	0		
R1103	1-216-864-11	SHORT CHIP	0		
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1215	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1108	1-216-857-11	METAL CHIP	1M	5%	1/10W	R1216	1-216-834-11	METAL CHIP	12K	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0			R1219	1-216-838-11	METAL CHIP	27K	5%	1/10W
R1110	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1220	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1111	1-216-809-11	METAL CHIP	100	5%	1/10W	R1221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1112	1-211-977-11	METAL CHIP	22	0.5%	1/10W	R1222	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1113	1-211-977-11	METAL CHIP	22	0.5%	1/10W	R1223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1114	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1224	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1115	1-211-977-11	METAL CHIP	22	0.5%	1/10W	R1225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W
R1116	1-216-821-11	METAL CHIP	1K	5%	1/10W	R1226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W
R1117	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1227	1-216-864-11	SHORT CHIP	0		
R1118	1-216-801-11	METAL CHIP	22	5%	1/10W	R1228	1-216-864-11	SHORT CHIP	0		
R1120	1-216-801-11	METAL CHIP	22	5%	1/10W	R1230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W
R1121	1-216-801-11	METAL CHIP	22	5%	1/10W	R1231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W
R1123	1-216-864-11	SHORT CHIP	0			R1232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
R1124	1-216-841-11	METAL CHIP	47K	5%	1/10W	R1233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W
R1125	1-216-805-11	METAL CHIP	47	5%	1/10W	R1234	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1132	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1236	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0			R1237	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1135	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1238	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1136	1-216-835-11	METAL CHIP	15K	5%	1/10W	R1239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1137	1-216-864-11	SHORT CHIP	0			R1243	1-216-809-11	METAL CHIP	100	5%	1/10W
R1138	1-216-809-11	METAL CHIP	100	5%	1/10W	R1246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1139	1-216-864-11	SHORT CHIP	0			R1247	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1140	1-216-833-11	METAL CHIP	10K	5%	1/10W	R1601	1-216-295-91	SHORT CHIP	0		
R1141	1-216-855-11	METAL CHIP	680K	5%	1/10W	R1602	1-216-295-91	SHORT CHIP	0		
R1142	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1603	1-216-295-91	SHORT CHIP	0		
R1145	1-216-864-11	SHORT CHIP	0			R1604	1-216-295-91	SHORT CHIP	0		
R1147	1-216-864-11	SHORT CHIP	0			R1605	1-216-296-11	SHORT CHIP	0		
R1148	1-216-864-11	SHORT CHIP	0			R1606	1-216-295-91	SHORT CHIP	0		
R1151	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2101	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R1152	1-216-864-11	SHORT CHIP	0			R2103	1-216-864-11	SHORT CHIP	0		
R1153	1-216-864-11	SHORT CHIP	0			R2104	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1154	1-216-864-11	SHORT CHIP	0			R2108	1-216-864-11	SHORT CHIP	0		
R1155	1-216-864-11	SHORT CHIP	0			R2110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1156	1-216-809-11	METAL CHIP	100	5%	1/10W	R2111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1159	1-216-805-11	METAL CHIP	47	5%	1/10W	R2112	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1160	1-216-805-11	METAL CHIP	47	5%	1/10W	R2114	1-216-801-11	METAL CHIP	22	5%	1/10W
R1161	1-216-801-11	METAL CHIP	22	5%	1/10W	R2115	1-216-864-11	SHORT CHIP	0		
R1169	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2119	1-216-864-11	SHORT CHIP	0		
R1171	1-216-809-11	METAL CHIP	100	5%	1/10W	R2126	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1175	1-216-864-11	SHORT CHIP	0			R2127	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1183	1-216-805-11	METAL CHIP	47	5%	1/10W	R2128	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1184	1-216-805-11	METAL CHIP	47	5%	1/10W	R2129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1185	1-216-805-11	METAL CHIP	47	5%	1/10W	R2133	1-216-864-11	SHORT CHIP	0		
R1191	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2134	1-216-864-11	SHORT CHIP	0		
R1193	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2135	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R2150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1205	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1206	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R2161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1208	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2167	1-216-864-11	SHORT CHIP	0		
R1209	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2168	1-216-813-11	METAL CHIP	220	5%	1/10W
R1210	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2176	1-216-864-11	SHORT CHIP	0		
R1212	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2177	1-216-809-11	METAL CHIP	100	5%	1/10W
R1213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R2178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1214	1-216-835-11	METAL CHIP	15K	5%	1/10W	R2179	1-216-809-11	METAL CHIP	100	5%	1/10W
						R2182	1-216-864-11	SHORT CHIP	0		

HCD-DZ150K/DZ151KB

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
R2184	1-216-809-11	METAL CHIP	100	5%	1/10W		R3075	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2185	1-216-809-11	METAL CHIP	100	5%	1/10W		R3076	1-216-809-11	METAL CHIP	100	5%	1/10W	
							R3077	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2187	1-216-805-11	METAL CHIP	47	5%	1/10W		R3078	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2188	1-216-864-11	SHORT CHIP	0				R3079	1-216-809-11	METAL CHIP	100	5%	1/10W	
R2191	1-216-809-11	METAL CHIP	100	5%	1/10W								
R2506	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3080	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R2507	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3097	1-216-809-11	METAL CHIP	100	5%	1/10W	
							R3101	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3102	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3103	1-216-864-11	SHORT CHIP	0			
R3003	1-216-823-11	METAL CHIP	1.5K	5%	1/10W								
R3004	1-216-822-11	METAL CHIP	1.2K	5%	1/10W		R3104	1-216-864-11	SHORT CHIP	0			
R3006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W		R3107	1-216-835-11	METAL CHIP	15K	5%	1/10W	
							R3115	1-216-864-11	SHORT CHIP	0			
R3011	1-216-817-11	METAL CHIP	470	5%	1/10W		R3116	1-216-864-11	SHORT CHIP	0			
R3012	1-216-817-11	METAL CHIP	470	5%	1/10W		R3125	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3013	1-216-833-11	METAL CHIP	10K	5%	1/10W								
R3014	1-216-801-11	METAL CHIP	22	5%	1/10W		R3126	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3015	1-216-809-11	METAL CHIP	100	5%	1/10W		R3127	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R3151	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3017	1-216-819-11	METAL CHIP	680	5%	1/10W		R3152	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3021	1-216-817-11	METAL CHIP	470	5%	1/10W		R3153	1-216-864-11	SHORT CHIP	0			
R3022	1-216-817-11	METAL CHIP	470	5%	1/10W								
R3023	1-216-801-11	METAL CHIP	22	5%	1/10W		R3154	1-216-864-11	SHORT CHIP	0			
R3024	1-216-809-11	METAL CHIP	100	5%	1/10W		R3157	1-216-835-11	METAL CHIP	15K	5%	1/10W	
							R3165	1-216-864-11	SHORT CHIP	0			
R3026	1-216-819-11	METAL CHIP	680	5%	1/10W		R3166	1-216-864-11	SHORT CHIP	0			
R3031	1-216-817-11	METAL CHIP	470	5%	1/10W		R3175	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3032	1-216-817-11	METAL CHIP	470	5%	1/10W								
R3033	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3176	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3034	1-216-801-11	METAL CHIP	22	5%	1/10W		R3177	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R3201	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W		R3202	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3037	1-216-819-11	METAL CHIP	680	5%	1/10W		R3203	1-216-864-11	SHORT CHIP	0			
R3040	1-216-864-11	SHORT CHIP	0										
R3041	1-216-864-11	SHORT CHIP	0				R3204	1-216-864-11	SHORT CHIP	0			
R3042	1-216-864-11	SHORT CHIP	0				R3207	1-216-835-11	METAL CHIP	15K	5%	1/10W	
							R3215	1-216-864-11	SHORT CHIP	0			
R3043	1-216-864-11	SHORT CHIP	0				R3216	1-216-864-11	SHORT CHIP	0			
R3044	1-216-864-11	SHORT CHIP	0				R3225	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3045	1-216-864-11	SHORT CHIP	0										
R3046	1-216-864-11	SHORT CHIP	0				R3226	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3051	1-216-097-11	RES-CHIP	100K	5%	1/10W		R3227	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R3251	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W		R3252	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3053	1-216-809-11	METAL CHIP	100	5%	1/10W		R3253	1-216-864-11	SHORT CHIP	0			
R3054	1-216-801-11	METAL CHIP	22	5%	1/10W								
R3055	1-216-809-11	METAL CHIP	100	5%	1/10W		R3254	1-216-864-11	SHORT CHIP	0			
R3057	1-216-809-11	METAL CHIP	100	5%	1/10W		R3257	1-216-835-11	METAL CHIP	15K	5%	1/10W	
							R3265	1-216-864-11	SHORT CHIP	0			
R3059	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3266	1-216-864-11	SHORT CHIP	0			
R3060	1-216-833-11	METAL CHIP	10K	5%	1/10W		R3275	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3061	1-216-864-11	SHORT CHIP	0										
R3063	1-216-821-11	METAL CHIP	1K	5%	1/10W		R3276	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3064	1-216-821-11	METAL CHIP	1K	5%	1/10W		R3277	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R3301	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3065	1-216-809-11	METAL CHIP	100	5%	1/10W		R3302	1-216-809-11	METAL CHIP	100	5%	1/10W	
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W		R3303	1-216-864-11	SHORT CHIP	0			
R3067	1-216-809-11	METAL CHIP	100	5%	1/10W								
R3068	1-216-809-11	METAL CHIP	100	5%	1/10W		R3304	1-216-864-11	SHORT CHIP	0			
R3069	1-216-809-11	METAL CHIP	100	5%	1/10W		R3307	1-216-835-11	METAL CHIP	15K	5%	1/10W	
							R3315	1-216-864-11	SHORT CHIP	0			
R3070	1-216-809-11	METAL CHIP	100	5%	1/10W		R3316	1-216-864-11	SHORT CHIP	0			
R3071	1-216-809-11	METAL CHIP	100	5%	1/10W		R3325	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3072	1-216-809-11	METAL CHIP	100	5%	1/10W								
R3073	1-216-809-11	METAL CHIP	100	5%	1/10W		R3326	1-216-845-11	METAL CHIP	100K	5%	1/10W	
R3074	1-216-809-11	METAL CHIP	100	5%	1/10W		R3327	1-216-845-11	METAL CHIP	100K	5%	1/10W	
							R3403	1-216-864-11	SHORT CHIP	0			

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R3404	1-216-864-11	SHORT CHIP	0			RB1110	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
R3407	1-216-835-11	METAL CHIP	15K	5%	1/10W	RB1111	1-234-371-21	RES, NETWORK 47 (1005X4)			
						RB1112	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
R3415	1-216-864-11	SHORT CHIP	0								
R3416	1-216-864-11	SHORT CHIP	0			RB1113	1-234-400-21	CONDUCTOR, NETWORK (1005X4)			
R3425	1-216-845-11	METAL CHIP	100K	5%	1/10W	RB1114	1-234-371-21	RES, NETWORK 47 (1005X4)			
R3426	1-216-845-11	METAL CHIP	100K	5%	1/10W	RB1115	1-234-371-21	RES, NETWORK 47 (1005X4)			
R3427	1-216-845-11	METAL CHIP	100K	5%	1/10W						
								< TERMINAL >			
R3501	1-216-809-11	METAL CHIP	100	5%	1/10W	TB3901	1-780-453-11	TERMINAL BOARD (SPEAKER) 2P			
R3502	1-216-809-11	METAL CHIP	100	5%	1/10W			(SPEAKER/CENTER, WOOFER)			
R3551	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R3552	1-216-837-11	METAL CHIP	22K	5%	1/10W			< VIBRATOR >			
R3553	1-216-833-11	METAL CHIP	10K	5%	1/10W						
						X501	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W	X1101	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)			
R3555	1-216-864-11	SHORT CHIP	0			X3051	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			
R3556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W			*****			
R3557	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R3558	1-216-833-11	METAL CHIP	10K	5%	1/10W						
								MS-203 BOARD			
R3901	1-216-296-11	SHORT CHIP	0					*****			
R3902	1-216-296-11	SHORT CHIP	0								
R3905	1-216-296-11	SHORT CHIP	0					< CONNECTOR >			
R3906	1-216-296-11	SHORT CHIP	0			CN001	1-815-412-11	CONNECTOR, FFC/FPC 5P			
R3907	1-216-864-11	SHORT CHIP	0								
								< SWITCH >			
R3911	1-216-864-11	SHORT CHIP	0			S001	1-786-693-11	SWITCH, DETECTION (CHUCK/TRAY DETECT)			
R3912	1-216-864-11	SHORT CHIP	0					*****			
R3913	1-216-864-11	SHORT CHIP	0								
R3914	1-216-864-11	SHORT CHIP	0					A-1222-492-A	POWER BOARD, COMPLETE (RU)		
R3917	1-216-864-11	SHORT CHIP	0					A-1222-514-A	POWER BOARD, COMPLETE		
								(AR, E3, SP, E12, AUS, KR)			
R3918	1-216-864-11	SHORT CHIP	0					A-1222-531-A	POWER BOARD, COMPLETE (E32)		
R3919	1-216-864-11	SHORT CHIP	0					A-1222-540-A	POWER BOARD, COMPLETE (MX)		
R4002	1-216-864-11	SHORT CHIP	0					A-1242-988-A	POWER BOARD, COMPLETE (EA)		
R4501	1-216-801-11	METAL CHIP	22	5%	1/10W			A-1248-173-A	POWER BOARD, COMPLETE (TW)		
R4502	1-216-801-11	METAL CHIP	22	5%	1/10W			*****			
								7-685-647-79	SCREW +BVTP 3X10 TYPE2 IT-3		
R4510	1-216-805-11	METAL CHIP	47	5%	1/10W						
R4511	1-216-801-11	METAL CHIP	22	5%	1/10W			< CAPACITOR >			
R4512	1-216-864-11	SHORT CHIP	0			△C901	1-165-529-11	MYLAR 0.22uF 10 275V			
R4514	1-216-805-11	METAL CHIP	47	5%	1/10W	△C902	1-165-529-11	MYLAR 0.22uF 10 275V			
R4515	1-216-805-11	METAL CHIP	47	5%	1/10W	△C903	1-112-330-11	ELECT (BLOCK) 1000uF 20% 200V			
								(TW)			
R4516	1-216-805-11	METAL CHIP	47	5%	1/10W	△C903	1-112-331-11	ELECT (BLOCK) 1000uF 20% 250V			
R4517	1-216-864-11	SHORT CHIP	0					(MX)			
R4519	1-216-864-11	SHORT CHIP	0			△C903	1-112-333-11	ELECT (BLOCK) 330uF 20% 450V			
R4521	1-216-864-11	SHORT CHIP	0					(EXCEPT MX, TW)			
R4701	1-216-864-11	SHORT CHIP	0			△C905	1-112-334-91	FILM 0.01uF 5% 400V			
								(MX, TW)			
R4702	1-216-864-11	SHORT CHIP	0			△C905	1-112-335-91	FILM 0.0033uF 5% 400V			
R4703	1-216-864-11	SHORT CHIP	0					(EXCEPT MX, TW)			
R4704	1-216-864-11	SHORT CHIP	0			△C906	1-117-815-11	FILM 1000PF 3% 1.5KV			
R4705	1-216-864-11	SHORT CHIP	0					(EXCEPT MX, TW)			
R4706	1-216-864-11	SHORT CHIP	0			△C907	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V			
								(EXCEPT MX, TW)			
R4717	1-216-864-11	SHORT CHIP	0			△C907	1-162-965-11	CERAMIC CHIP 0.0015uF 10% 50V			
R4718	1-216-864-11	SHORT CHIP	0					(MX, TW)			
R4805	1-216-801-11	METAL CHIP	22	5%	1/10W	△C908	1-104-962-91	ELECT 47uF 20% 35V			
		< NETWORK RESISTOR >				△C909	1-162-960-11	CERAMIC CHIP 220PF 10% 50V			
RB1103	1-234-371-21	RES, NETWORK 47 (1005X4)				△C910	1-107-906-11	ELECT 10uF 20% 50V			
RB1104	1-234-371-21	RES, NETWORK 47 (1005X4)						(MX, TW)			
RB1105	1-234-371-21	RES, NETWORK 47 (1005X4)				△C910	1-107-907-11	ELECT 22uF 20% 50V			
RB1106	1-234-371-21	RES, NETWORK 47 (1005X4)						(RU, AR, E3, SP, E12, AUS, KR)			
RB1107	1-234-371-21	RES, NETWORK 47 (1005X4)				△C911	1-162-968-11	CERAMIC CHIP 0.0047uF 10% 50V			
RB1108	1-234-371-21	RES, NETWORK 47 (1005X4)									
RB1109	1-234-400-21	CONDUCTOR, NETWORK (1005X4)									

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POWER

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
△ C913	1-117-693-11	CERAMIC	100PF	10%	250V				< CONNECTOR >				
△ C918	1-113-925-11	CERAMIC	0.01uF	20%	250V		△ CN901	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P				
△ C920	1-113-925-11	CERAMIC	0.01uF	20%	250V		CN903	1-564-505-11	PLUG, CONNECTOR 2P (EXCEPT RU)				
△ C922	1-128-560-11	ELECT	22uF	20%	100V		* CN906	1-564-714-11	PIN, CONNECTOR (SMALL TYPE) 12P				
△ C923	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V				< DIODE >				
△ C924	1-126-961-11	ELECT	2.2uF	20%	50V								
△ C925	1-107-974-81	CERAMIC	47PF	5%	2KV		D901	8-719-082-57	DIODE D5SBA60F01				
△ C928	1-117-695-51	CERAMIC	220PF	10%	250V		△ D905	8-719-063-74	DIODE D1NL20U-TR2				
					(MX, TW)		△ D906	6-501-193-01	DIODE 1SS355WTE-17				
△ C929	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V		△ D907	6-501-193-01	DIODE 1SS355WTE-17				
△ C930	1-117-693-11	CERAMIC	100PF	10%	250V		△ D908	6-501-193-01	DIODE 1SS355WTE-17				
C932	1-100-924-21	ELECT	2200uF	20%	35V								
C933	1-100-924-21	ELECT	2200uF	20%	35V		△ D909	6-501-193-01	DIODE 1SS355WTE-17				
C934	1-112-831-11	ELECT	2200uF	20%	35V		△ D910	6-501-193-01	DIODE 1SS355WTE-17				
C935	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V		△ D913	6-500-241-01	DIODE SARS03				
C936	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V		△ D914	6-501-193-01	DIODE 1SS355WTE-17				
C937	1-100-756-91	CERAMIC CHIP	0.047uF		50V		△ D915	6-501-174-01	DIODE UDZW-TE17-10B				
							△ D921	6-501-424-01	DIODE STO2D-140				
△ C938	1-117-696-51	CERAMIC	330PF	10%	250V		△ D922	8-719-063-74	DIODE D1NL20U-TR2				
					(MX, TW)		△ D923	6-501-174-01	DIODE UDZW-TE17-10B				
△ C938	1-117-697-51	CERAMIC	470PF	10%	250V		△ D924	6-501-183-01	DIODE UDZW-TE17-24B				
					(EXCEPT MX, TW)		△ D925	6-501-167-01	DIODE UDZW-TE17-5.1B				
C939	1-136-165-00	FILM	0.1uF	5%	50V								
C940	1-128-947-31	ELECT	3300uF	20%	10V		△ D926	6-501-174-01	DIODE UDZW-TE17-10B				
C941	1-128-954-11	ELECT	1000uF	20%	25V		D931	6-501-849-01	DIODE FMX-22SL				
							D932	6-501-167-01	DIODE UDZW-TE17-5.1B				
C942	1-126-941-11	ELECT	470uF	20%	25V		D941	6-500-288-11	DIODE EK19LF-F7				
C943	1-126-933-11	ELECT	100uF	20%	16V		D942	8-719-080-53	DIODE RK36LF-B3				
C944	1-128-951-21	ELECT	2200uF	20%	16V								
C945	1-126-935-11	ELECT	470uF	20%	16V		D943	8-719-080-53	DIODE RK36LF-B3				
C946	1-128-950-21	ELECT	1000uF	20%	16V		D944	6-500-288-11	DIODE EK19LF-F7				
							D945	6-501-181-01	DIODE UDZW-TE17-20B				
C947	1-104-658-91	ELECT	100uF	20%	10V								
C948	1-126-925-91	ELECT	470uF	20%	10V				< TERMINAL GROUND >				
C949	1-104-658-91	ELECT	100uF	20%	10V								
C951	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V		EB901	1-537-770-21	TERMINAL BOARD, GROUND (EXCEPT EA)				
C952	1-100-756-91	CERAMIC CHIP	0.047uF		50V		EB901	1-537-738-21	TERMINAL BOARD, GROUND (EA)				
							EB902	1-537-770-21	TERMINAL BOARD, GROUND (EXCEPT EA)				
C953	1-117-214-11	CERAMIC	0.001uF	10%	2KV		EB902	1-537-738-21	TERMINAL BOARD, GROUND (EA)				
C954	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V		EB903	1-537-770-21	TERMINAL BOARD, GROUND (EXCEPT EA)				
C955	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C958	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		EB903	1-537-738-21	TERMINAL BOARD, GROUND (EA)				
C960	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		EB904	1-537-770-21	TERMINAL BOARD, GROUND (EXCEPT EA)				
							EB904	1-537-738-21	TERMINAL BOARD, GROUND (EA)				
C961	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V		EB906	1-537-770-21	TERMINAL BOARD, GROUND (EXCEPT EA)				
					(EXCEPT RU)		EB906	1-537-738-21	TERMINAL BOARD, GROUND (EA)				
△ C963	1-117-697-51	CERAMIC	470PF	10%	250V				< FUSE HOLDER >				
					(EXCEPT MX, TW)								
△ C963	1-117-700-51	CERAMIC	0.0022uF	20%	250V								
					(MX, TW)		FH901	1-533-217-41	HOLDER, FUSE				
△ C964	1-117-697-51	CERAMIC	470PF	10%	250V		FH902	1-533-217-41	HOLDER, FUSE				
					(EXCEPT MX, TW)								
△ C964	1-117-700-51	CERAMIC	0.0022uF	20%	250V				< FUSIBLE RESISTOR >				
					(MX, TW)		△ FR901	1-242-949-11	FUSIBLE 0.1 10% 1W				
C967	1-100-566-91	CERAMIC CHIP	0.1uF	10%	25V				(RU, AR, E3, SP, E12, AUS, KR)				
C968	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V				< IC >				
C969	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		△ IC901	6-707-741-01	IC STR-F6138-LF1352 (MX, TW)				
C970	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		△ IC901	6-707-742-01	IC STR-F6168-LF1352 (EXCEPT MX, TW)				
C971	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V		△ IC921	6-707-740-01	IC STR-V153				
C976	1-126-933-11	ELECT	100uF	20%	16V		IC931	8-759-648-34	IC TA76431AS (TPE6)				
△ C979	1-126-967-11	ELECT	47uF	20%	50V		IC941	6-705-308-01	IC SI-3010KM-TL				
					(EA, E32)								
△ C980	1-117-828-11	FILM	3300PF	3%	1.5KV		IC942	6-705-308-01	IC SI-3010KM-TL				
					(MX, TW)								

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
IC943	6-705-308-01	IC SI-3010KM-TL		△ R923	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
IC951	6-707-743-01	IC TA76L431S (TPE6, Q)		△ R925	1-216-797-11	METAL CHIP 10 5%	1/10W
< COIL >				△ R926	1-216-855-11	METAL CHIP 680K 5%	1/10W
L931	1-457-438-11	INDUCTOR 5.6uH		△ R927	1-216-348-00	METAL OXIDE 0.82 5%	1W F (EA, E32, MX, TW)
L941	1-414-398-11	INDUCTOR 10uH		△ R927	1-216-349-00	METAL OXIDE 1 5%	1W F (RU, AR, E3, SP, E12, AUS, KR)
L942	1-414-398-11	INDUCTOR 10uH		△ R929	1-246-106-11	METAL OXIDE 2.2 5%	1/2W F
L943	1-414-398-11	INDUCTOR 10uH		R931	1-218-853-11	METAL CHIP 1.8K 0.5%	1/10W (EA, E32)
L944	1-414-398-11	INDUCTOR 10uH		R931	1-218-859-11	METAL CHIP 3.3K 0.5%	1/10W (EXCEPT EA, E32)
L945	1-414-398-11	INDUCTOR 10uH		R932	1-218-883-11	METAL CHIP 33K 0.5%	1/10W
L947	1-414-398-11	INDUCTOR 10uH		R933	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
L948	1-414-398-11	INDUCTOR 10uH		R934	1-216-821-11	METAL CHIP 1K 5%	1/10W
L951	1-414-398-11	INDUCTOR 10uH		R935	1-216-821-11	METAL CHIP 1K 5%	1/10W
L952	1-414-398-11	INDUCTOR 10uH (EXCEPT RU)		R936	1-216-853-11	METAL CHIP 470K 5%	1/10W
< LINE FILTER >				R937	1-216-833-11	METAL CHIP 10K 5%	1/10W
△ LF901	1-457-054-21	COIL, LINE FILTER		R938	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ LF902	1-457-054-21	COIL, LINE FILTER		R939	1-218-859-11	METAL CHIP 3.3K 0.5%	1/10W
< PHOTO COUPLER >				R940	1-216-833-11	METAL CHIP 10K 5%	1/10W
△ PC901	6-600-438-01	IC TLP421F (D4-GR)		R941	1-216-845-11	METAL CHIP 100K 5%	1/10W
△ PC902	6-600-438-01	IC TLP421F (D4-GR)		R942	1-216-833-11	METAL CHIP 10K 5%	1/10W
△ PC903	6-600-438-01	IC TLP421F (D4-GR)		R943	1-216-839-11	METAL CHIP 33K 5%	1/10W
< TRANSISTOR >				R945	1-216-833-11	METAL CHIP 10K 5%	1/10W
△ Q901	8-729-141-88	TRANSISTOR 2SB1116A-TP-LK		R946	1-216-837-11	METAL CHIP 22K 5%	1/10W
△ Q921	8-729-142-51	TRANSISTOR 2SD1616A-TP-LK		R948	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q943	1-801-806-11	TR DTC144EKA		R949	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q945	6-550-718-01	TRANSISTOR RSR025N03TL		R951	1-218-831-11	METAL CHIP 220 0.5%	1/10W
Q947	1-801-806-11	TR DTC144EKA		R952	1-218-855-11	METAL CHIP 2.2K 0.5%	1/10W
< RESISTOR >				R953	1-218-861-11	METAL CHIP 3.9K 0.5%	1/10W
△ R901	1-219-759-11	METAL 1M 5%	1/2W	R954	1-216-837-11	METAL CHIP 22K 5%	1/10W
△ R903	1-215-926-00	METAL OXIDE 33K 5%	3W F (MX, TW)	R955	1-216-817-11	METAL CHIP 470 5%	1/10W
△ R903	1-215-929-11	METAL OXIDE 100K 5%	3W F (EXCEPT MX, TW)	R956	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ R904	1-215-926-00	METAL OXIDE 33K 5%	3W F (MX, TW)	R957	1-216-841-11	METAL CHIP 47K 5%	1/10W
△ R904	1-215-929-11	METAL OXIDE 100K 5%	3W F (EXCEPT MX, TW)	R958	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ R905	1-216-797-11	METAL CHIP 10 5%	1/10W	R960	1-216-823-11	METAL CHIP 1.5K 5%	1/10W
△ R906	1-216-827-11	METAL CHIP 3.3K 5%	1/10W	R962	1-218-867-11	METAL CHIP 6.8K 0.5%	1/10W
△ R907	1-216-833-11	METAL CHIP 10K 5%	1/10W	R965	1-218-865-11	METAL CHIP 5.6K 0.5%	1/10W
△ R908	1-260-105-11	CARBON 3.3K 5%	1/2W	R966	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ R909	1-216-845-11	METAL CHIP 100K 5%	1/10W	R967	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ R910	1-216-825-11	METAL CHIP 2.2K 5%	1/10W	R968	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ R911	1-216-813-11	METAL CHIP 220 5%	1/10W	△ R969	1-216-821-11	METAL CHIP 1K 5%	1/10W
△ R912	1-216-361-61	METAL OXIDE 0.22 5%	2W F (MX, TW)	R971	1-216-864-11	SHORT CHIP 0	
△ R912	1-216-363-00	METAL OXIDE 0.33 5%	2W F (EXCEPT MX, TW)	R972	1-216-833-11	METAL CHIP 10K 5%	1/10W
△ R913	1-216-361-61	METAL OXIDE 0.22 5%	2W F (MX, TW)	R974	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
△ R914	1-220-891-11	METAL PLATE 0.1 10% 5W	F (EXCEPT MX, TW)	< TRANSFORMER >			
△ R914	1-243-669-11	METAL 0.05 5%	5W F (MX, TW)	△ T901	1-443-649-11	TRANSFORMER, CONVERTER (MX, TW)	
△ R919	1-216-836-11	METAL CHIP 18K 5%	1/10W	△ T901	1-443-874-11	TRANSFORMER, CONVERTER (EXCEPT MX, TW)	
△ R922	1-216-793-11	METAL CHIP 4.7 5%	1/10W	△ T902	1-443-650-11	TRANSFORMER, CONVERTER	
< THERMISTOR >				< THERMISTOR >			
△ TH901	1-805-841-21	THERMISTOR, NTC 3.0 (EA, E32, MX, TW)		△ TH901	1-805-841-21	THERMISTOR, NTC 3.0 (EA, E32, MX, TW)	
△ TH901	1-805-842-21	THERMISTOR, NTC 6.0 (RU, AR, E3, SP, E12, AUS, KR)		△ TH901	1-805-842-21	THERMISTOR, NTC 6.0 (RU, AR, E3, SP, E12, AUS, KR)	

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POWER P-SW SPEAKER

Ref. No.	Part No.	Description	Remark			
< VARISTOR >						
△ VDR901	1-805-482-11	VARISTOR	*****			
P-SW BOARD						

< CAPACITOR >						
C851	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	
< SWITCH >						
S801	1-762-875-21	SWITCH, KEYBOARD (I/⏻)	*****			
SPEAKER BOARD						

< CAPACITOR >						
C301	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C302	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C303	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C304	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C305	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C306	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C307	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C308	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V	
C309	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C310	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C311	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C312	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C313	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C314	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C315	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C316	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
< CONNECTOR >						
* CN303	1-564-523-11	PLUG, CONNECTOR 8P				
< TERMINAL GROUND >						
ET301	1-537-738-21	TERMINAL, GROUND (EA)				
ET302	1-537-738-21	TERMINAL, GROUND (EA)				
< TERMINAL >						
TB301	1-780-454-11	TERMINAL BOARD (SPEAKER) 4P (SPEAKER/FRONT R,FRONT L,SUR R,SUR L)	*****			
MISCELLANEOUS						

7	1-828-951-51	WIRE (FLAT TYPE) (9 CORE)				
8	1-693-725-11	TUNER (FM/AM)(RU)				
8	1-693-726-11	TUNER (FM/AM)(EXCEPT RU)				
59	1-828-325-51	WIRE (FLAT TYPE) (13 CORE)				
61	1-828-374-51	WIRE (FLAT TYPE) (21 CORE)				
102	1-828-292-51	WIRE (FLAT TYPE) (5 CORE)				
103	1-828-349-51	WIRE (FLAT TYPE) (17 CORE)				
104	1-828-316-51	WIRE (FLAT TYPE) (11 CORE)				

Ref. No.	Part No.	Description	Remark
109	1-787-331-11	FAN, D.C.	
△ 110	1-696-848-81	CORD, POWER (AUS)	
△ 110	1-769-079-23	CORD, POWER (KR)	
△ 110	1-777-071-23	CORD, POWER (E3, EA, SP)	
△ 110	1-827-226-41	CORD, POWER (MX)	
△ 110	1-827-597-41	CORD, POWER (TW)	
△ 110	1-829-387-11	CORD, POWER (AR)	
△ 110	1-830-188-11	CORD, POWER (RU, E12, E32)	
114	1-828-319-51	WIRE (FLAT TYPE) (11 CORE)	
△ 507	8-820-321-05	OPTICAL PICK UP (KHM-313CAA/C2RP)	
508	1-828-773-51	WIRE (FLAT TYPE)(24 CORE)	
△ F901	1-533-311-12	FUSE, GLASS CYLINDRICAL (DIA.5)(8A/125V) (MX, TW)	
△ F901	1-533-949-33	FUSE, CYLINDRICAL (TIME LAG)(T8AL/250V) (EA, E32)	
△ F901	1-576-233-51	FUSE (H.B.C.) (T6.3AH/250V) (RU, AR, E3, SP, E12, AUS, KR)	

HCD-DZ150K/DZ151KB

SONY®

SERVICE MANUAL

Ver. 1.2 2007.05

Russian Model

E Model

HCD-DZ150K/DZ151KB

Australian Model

HCD-DZ150K

SUPPLEMENT-1

Subject: MAIN board changed to suffix-12 from suffix-11

Part number of printed wiring board changed to suffix-12 from suffix-11.

It has any difference between suffix-11 and suffix-12.

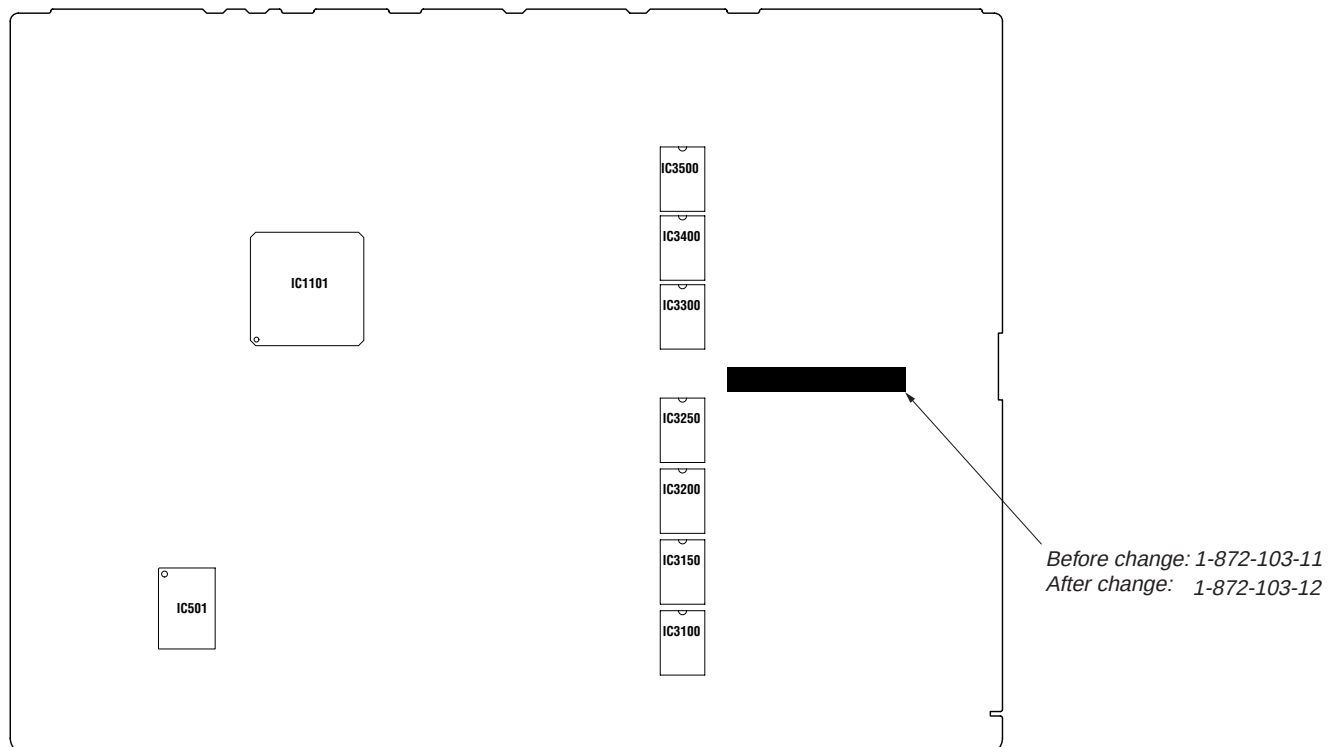
This supplement-1 describes the difference in the two boards.

Refer to original service manual (9-887-566-0□) for other information.

- **How to distinguish**

Location of parts number on changed printed wiring board

【MAIN BOARD】(SIDE A)



DIAGRAMS

THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For Schematic Diagrams.**Note:**

- All capacitors are in μF unless otherwise noted. (p: pF)
50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4} \text{ W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- : panel designation.

Note: The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety.
Replace only with part number specified.

- — : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages and waveforms are dc with respect to ground in service mode.
- Waveforms are taken with a oscilloscope.
Voltage variations may be noted due to normal production tolerances.
- no mark : DVD STOP
- * : Impossible to measure
- Voltages are taken with VOM (Input impedance 10 M Ω).
- Circled numbers refer to waveforms.
- Signal path.
 - ⇒ : AUDIO
 - ⇒⇒ : CD PLAY
 - ⇒⇒⇒ : DVD PLAY
 - ⇒⇒⇒ : VIDEO
 - ⇒⇒ : Y
 - ⇒⇒ : CHROMA
 - ⇒⇒ : COMPONENT VIDEO
- Abbreviation
 - AUS : Australian model
 - AR : Argentine model
 - E3 : 220 – 240V AC area in E model
 - E12 : 220 – 240V AC area in E model
 - E32 : 110 – 240V AC area in E model
 - EA : Saudi Arabia model
 - KR : Korean model
 - MX : Mexican model
 - RU : Russian model
 - SP : Singapore model
 - TW : Taiwan model

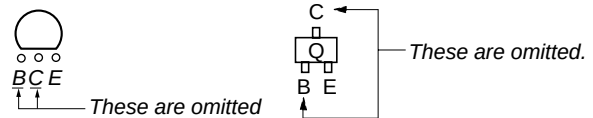
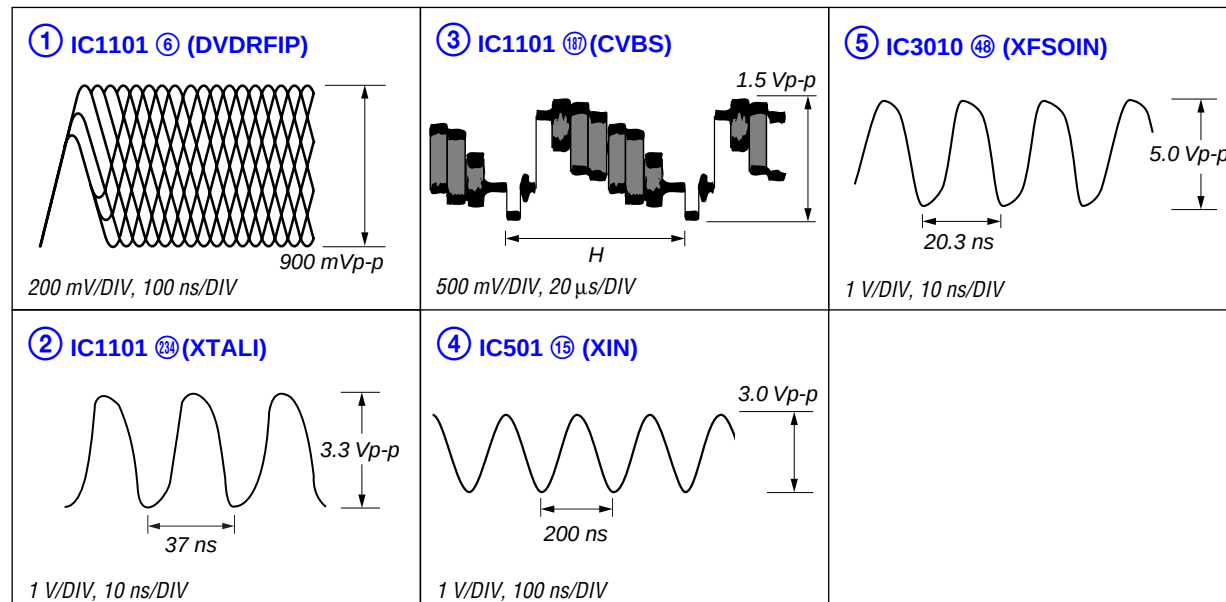
For Printed Wiring Boards.**Note:**

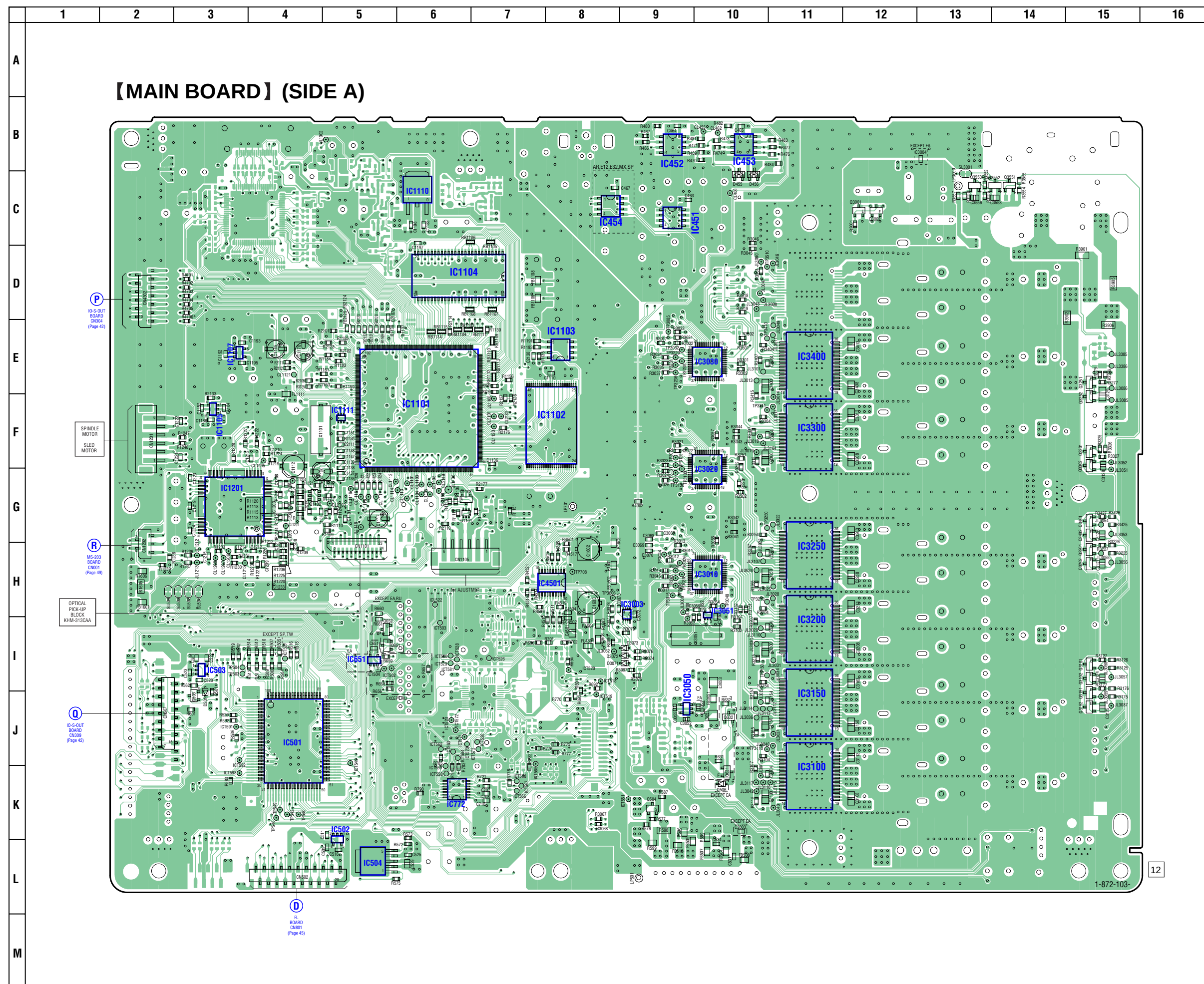
- — : parts extracted from the component side.
- $\bigcirc$: Through hole.
- : Pattern from the side which enables seeing.
(The other layers' patterns are not indicated.)

Caution:

Pattern face side: Parts on the pattern face side seen from (SIDE B) the pattern face are indicated.
Parts face side: Parts on the parts face side seen from (SIDE A) the parts face are indicated.

- Indication of transistor.

• **Waveforms**– **MAIN Board –**

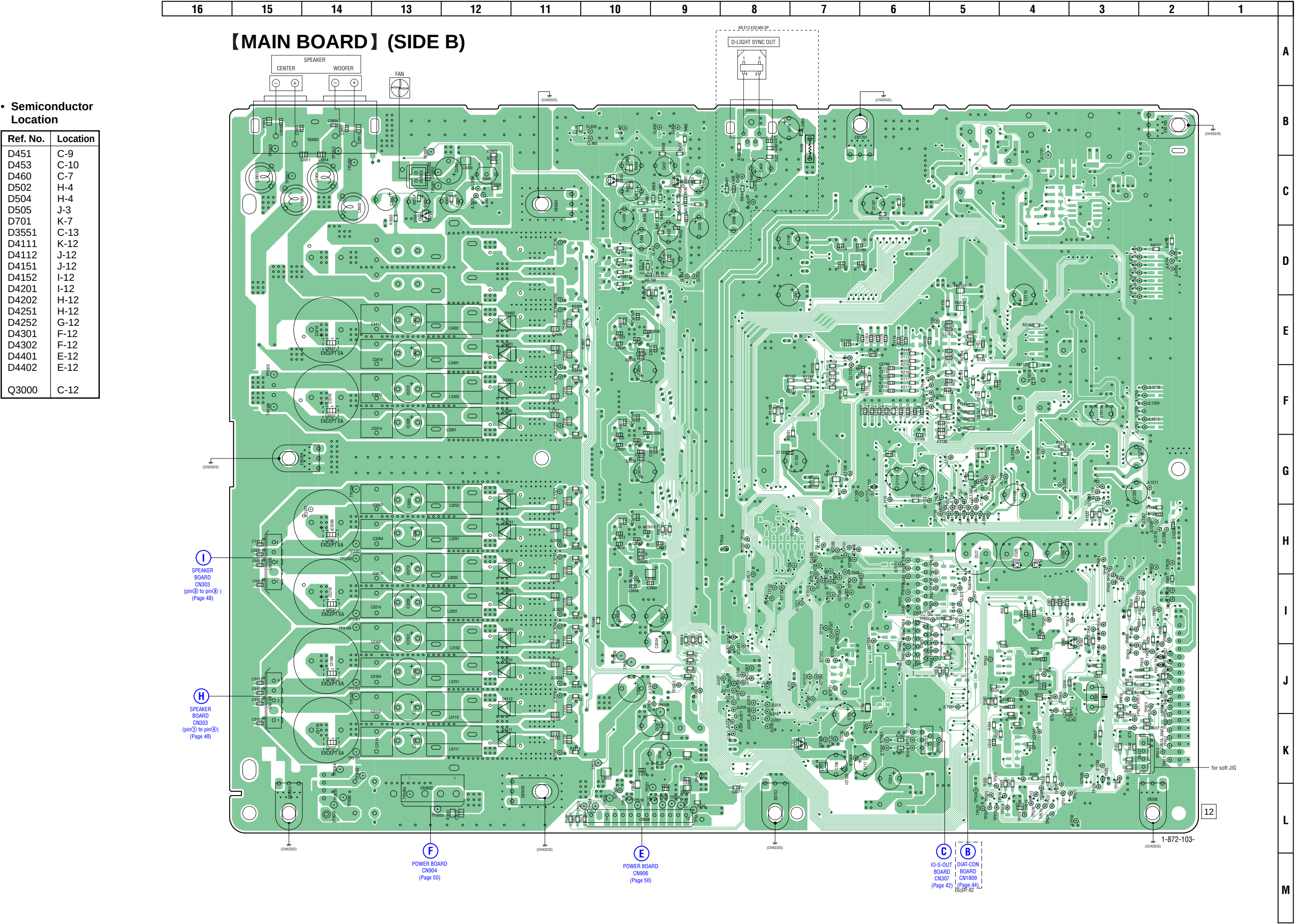


- **Semiconductor Location**

Ref. No.	Location
D455	C-10
D456	C-10
D501	J-3
D3071	I-9
D3072	I-9
D3073	I-9
IC451	C-9
IC452	B-9
IC453	B-10
IC454	C-8
IC501	J-4
IC502	K-5
IC503	I-3
IC504	L-5
IC651	I-5
IC772	K-6
IC1101	F-6
IC1102	F-8
IC1103	E-8
IC1104	D-6
IC1105	F-3
IC1107	E-3
IC1110	C-6
IC1111	F-5
IC1201	G-3
IC3003	H-9
IC3010	H-10
IC3020	F-10
IC3030	E-10
IC3050	J-9
IC3051	H-10
IC3100	K-11
IC3150	J-11
IC3200	I-11
IC3250	H-11
IC3300	F-11
IC3400	E-11
IC4501	H-8
Q503	J-3
Q504	K-9
Q631	K-10
Q632	J-10
Q1101	G-6
Q1102	G-4
Q1103	G-6
Q3001	C-12
Q3002	C-12
Q3101	I-15
Q3102	I-15
Q3151	J-15
Q3152	J-15
Q3201	H-15
Q3202	H-15
Q3251	E-15
Q3252	F-15
Q3301	F-15
Q3302	F-15
Q3401	G-15
Q3402	G-15
Q3551	C-14
Q3552	C-14
Q3553	C-13

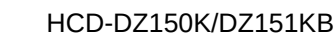
• Semiconductor Location

Ref. No.	Location
D451	C-9
D453	C-10
D460	C-7
D502	H-4
D504	H-4
D505	J-3
D701	K-7
D3551	C-13
D4111	K-12
D4112	J-12
D4151	J-12
D4152	I-12
D4201	I-12
D4202	H-12
D4251	H-12
D4252	G-12
D4301	F-12
D4302	F-12
D4401	E-12
D4402	E-12
Q3000	C-12



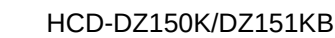


SCHEMATIC DIAGRAM – MAIN BOARD (2/9) –

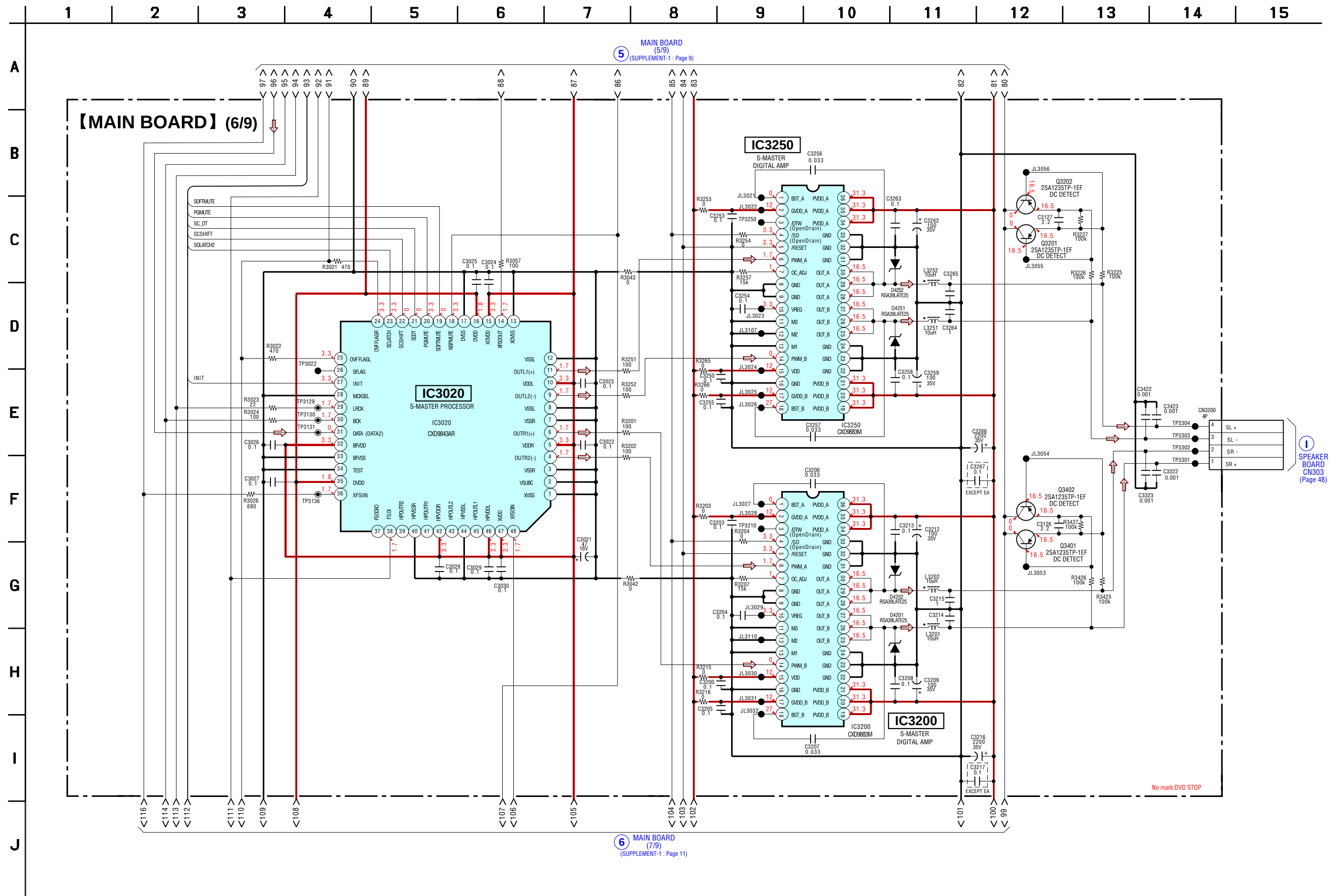




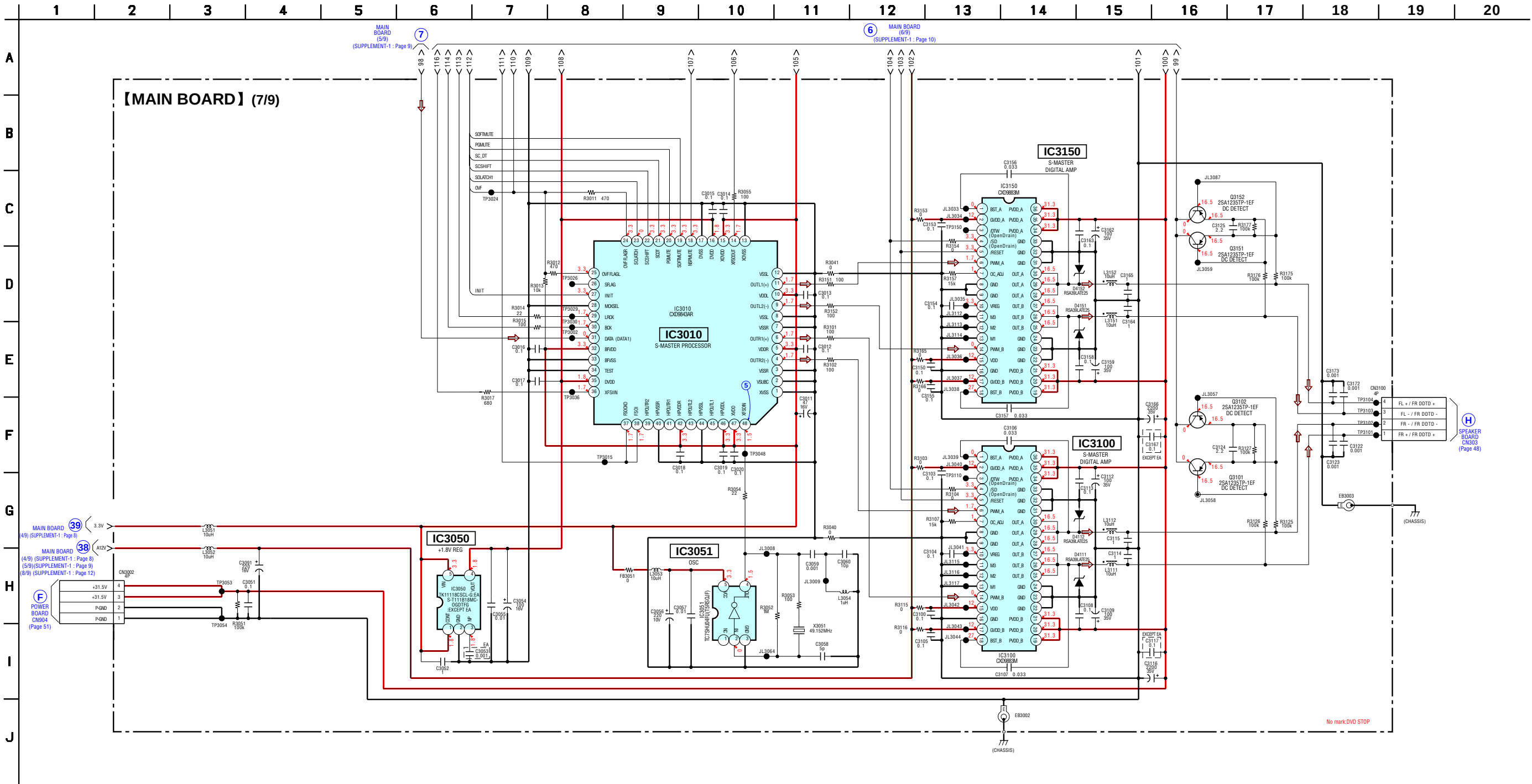
SCHEMATIC DIAGRAM – MAIN BOARD (4/9) –

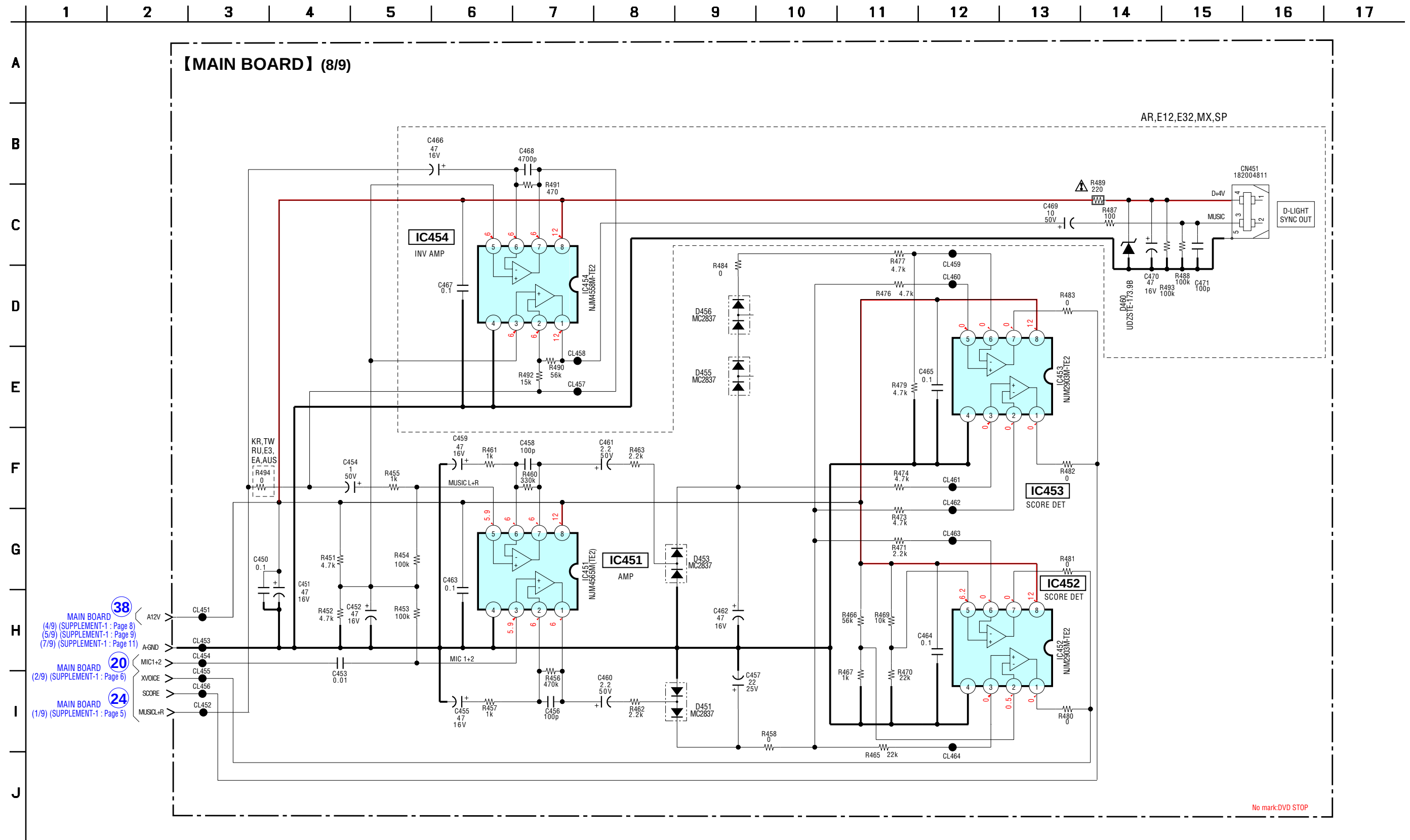






SCHEMATIC DIAGRAM – MAIN BOARD (7/9) – • See page 2 for Waveform.







HCD-DZ150K/DZ151KB

• IC Pin Function Description
MAIN BOARD IC501 M30622MEP-B32FPU0 (SYSTEM CONTROLLER)(SUFFIX-12)

Pin No.	Pin Name	I/O	Description
1	DAMP_SCDT/ DIAT_SDATA/DIR_DIN	O	DAMP processor data output, DIAT serial data output
2	DAMP_SHIFT/ DIAT_SCLK/DIR_CLK	O	DAMP processor clock output, DIAT serial clock output
3	NO USE	O	Not used (Open)
4	SIRCS_IN	I	Sircs input
5	NO USE	O	Not used (Open)
6	NO USE	O	Not used (Open)
7	NO USE	O	Not used (Open)
8	BYTE	I	External data bus (Ground terminal)
9	CNVSS	I	Change processor mode (Pull down)
10, 11	EN_A, EN_B	I	Volume control for ENCODER (Pull up)
12	RESET	I	System reset signal input
13	XOUT	O	Crystal output for main clock (5MHz)
14	VSS	—	Ground terminal
15	XIN	I	Crystal input for main clock (5MHz)
16	VCC	—	Power supply (BUP+3.3V)
17	NMI	I	Not used (Fixed to “H” (BUP+3.3V))
18	NO USE	O	Not used (Open)
19	A.CAL_OUT_LEVEL	I	Out level detect for auto calibration
20	AC_CUT	I	Detect AC-CUT
21	FL_CLK/LED_CLK	O	FL and LED driver clock output
22	NO USE	O	Not used (Open)
23	DIAT_CSOD	I	DIAT CSOD signal input
24	FL_D_OUT/LED_DATA	O	FL and LED driver data output
25	NO USE	—	Not used (Open)
26	MIC_GAIN	O	MIC gain control
27	CDM_OPEN_SW	I	CDM open switch input
28	DC_CONT	O	A.CAL MIC DC control output
29	CLINK_RX_IN	I	Not used (Fixed to “L”)
30	CLINK_TX_OUT	O	Not used (Fixed to “H”)
31	DVD_SID	O	Media Tek data out / Flash write TXD1
32	DVD_SOD	I	Media Tek data in / Flash write RXD1
33	DVD_SCO	I	Media Tek clock in / Flash write CLK1
34	DVD_XIFBUSY	O	Media Tek busy request / Flash write RTS1
35	MIC_DET_OUT	O	MIC detect status out to Media Tek
36	KARAOKE MODE	I	KARAOKE mode information from Media Tek
37	DVD XIFCS	I	Media Tek chip select
38	MTK_RST	O	Media Tek reset
39	P_CONT1	O	Control for power supply 1
40	P_CONT2	O	Control for power supply 2
41	P_CONT3	O	Control for power supply 3
42	DRIVE_RST(EN)	O	DAMP driver reset
43	DRIVE_OCP(DIAG)	I	DAMP driver shut down
44	OVERFLOW1	I	DAMP processor F/C/S over flow detect
45	OVERFLOW2	I	DAMP processor SW over flow detect
46	WRITE CE	I	Flash write CE (not used (Fixed to “H” (E3.3V)))

Pin No.	Pin Name	I/O	Description
47	DAMP LATCH1	O	DAMP processor latch1
48	DAMP LATCH2	O	DAMP processor latch2
49	DAMP LATCH3	O	DAMP processor latch3
50	DAMP INIT	O	DAMP processor reset
51	DAMP SOFT MUTE	O	DAMP processor soft muting
52	MIC2 SW	I	MIC2 insert switch
53	NO USE	O	Not used (Open)
54	NO USE	O	Not used (Open)
55	NO USE	O	Not used (Open)
56	FL_STB	O	FL driver chip select output
57	DC_DET	I	Speaker DC detect input
58	NO USE	O	Not used (Open)
59	NO USE	O	Not used (Open)
60	NO USE	O	Not used (Open)
61	NO USE	O	Not used (Open)
62	VCC	—	Power supply (BUP+3.3V)
63	MIC/A.CAL_SW	I	MIC insert switch
64	VSS	—	Ground terminal
65	DIAT_XRST	O	DIAT reset
66	DIAT_XSCEN	O	DIAT chip enable
67	NO USE	O	Not used (Open)
68	TUNED	I	TUNER tuned input
69	ST_CLK	O	TUNER clock output
70	ST_DO	I	TUNER data input
71	ST_CE	O	TUNER chip enable
72	ST_DI	O	TUNER data output
73	NO USE	O	Not used (Open)
74	KEY INT	I	Wakeup from ECO mode by key input
75	MIC_CLK	O	MIC electric volume clock output
76	MIC-DAT	O	MIC electric volume data output
77	DIAT_DET	I	DIAT ready detect input
78	NO USE	O	Not used
79	M_ST	O	LINK (Multi STEREO) control output
80	NO USE	O	Not used (Open)
81	ASEL3	O	Audio selector 3 (not used)
82	V_SEL0	O	Video selector 0
83	V_SEL1	O	Video selector 1
84	ASEL0	O	Audio selector 0
85	ASEL1	O	Audio selector 1
86	ASEL2	O	Audio selector 2 (not used)
87	NO USE	O	Not used
88	NO USE	O	Not used (Open)
89	CLINK_DET	O	C-Link detect input (not used (Open))
90	MONO/ST_DET	I	Front jack MONO or STEREO detect
91	A.CAL MIC LEVEL	I	MIC level detect for auto calibration
92	DESTINATION	I	Destination select input
93	MODEL	I	Model select input
94	KEY2	I	Key input 2 input
95	KEY1	I	Key input 1 input

Pin No.	Pin Name	I/O	Description
96	VSS	—	Ground terminal
97	KEY0	I	Key input 0 input
98	VREF	—	Reference voltage (E3.3V)
99	VCC	—	Power supply (BUP+3.3V)
100	NO USE	O	Not used

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
 - -XX and -X mean standardized parts, so they may have some difference from the original one.
 - Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - CAPACITORS
 - uF: μF
 - COILS
 - uH: μH
- RESISTORS
 - All resistors are in ohms.
 - METAL: Metal-film resistor.
 - METAL OXIDE: Metal oxide-film resistor.
 - F: nonflammable
 - SEMICONDUCTORS
 - In each case, u: μ, for example:
 - uA. . : μA. ., uPA. . : μPA. .,
 - uPB. . : μPB. ., uPC. . : μPC. .,
 - uPD. . : μPD. .
 - Abbreviation
 - AR : Argentine model
 - AUS : Australian model
 - E3 : 220 – 240V AC area in E model
 - E12 : 220 – 240V AC area in E model
 - E32 : 110 – 240V AC area in E model
 - EA : Saudi Arabia model

When indicating parts by reference number, please include the board name.

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

The components identified by mark ⊠ contain confidential information. Strictly follow the instructions whenever the components are repaired and/or replaced.

KR :Korean model
MX :Mexican model
RU :Russian model
SP :Singapore model
TW :Taiwan model

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
Ⓜ	A-1242-695-A	MAIN BOARD, COMPLETE (E12)					C504	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
	A-1242-716-A	MAIN BOARD, COMPLETE (TW)					C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
	A-1242-724-A	MAIN BOARD, COMPLETE (AR)					C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
	A-1242-727-A	MAIN BOARD, COMPLETE (RU)					C507	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
	A-1242-729-A	MAIN BOARD, COMPLETE (E3)					C508	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
	A-1242-730-A	MAIN BOARD, COMPLETE (E32, MX)											
Ⓜ	A-1249-182-A	MAIN BOARD, COMPLETE (AUS)					C509	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
Ⓜ	A-1249-189-A	MAIN BOARD, COMPLETE (KR)					C510	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
	A-1253-101-A	MAIN BOARD, COMPLETE (SP)					C511	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
	A-1253-102-A	MAIN BOARD, COMPLETE (EA)					C515	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
	*****						C516	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	
	< CAPACITOR >						C517	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
							C518	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C450	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C519	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C451	1-126-947-11	ELECT	47uF	20%	35V		C520	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	
C452	1-126-947-11	ELECT	47uF	20%	35V		C521	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C453	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V								
C454	1-126-960-11	ELECT	1uF	20%	50V		C522	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V	
							C523	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C455	1-126-947-11	ELECT	47uF	20%	35V		C524	1-126-947-11	ELECT	47uF	20%	35V	
C456	1-162-927-11	CERAMIC CHIP	100PF	5%	50V		C525	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C457	1-104-662-91	ELECT	22uF	20%	25V		C526	1-104-658-91	ELECT	100uF	20%	10V	
C458	1-162-927-11	CERAMIC CHIP	100PF	5%	50V								
C459	1-126-947-11	ELECT	47uF	20%	35V		C527	1-126-916-11	ELECT	1000uF	20%	6.3V	
							C528	1-126-916-11	ELECT	1000uF	20%	6.3V	
C460	1-126-961-11	ELECT	2.2uF	20%	50V		C529	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V	
C461	1-126-961-11	ELECT	2.2uF	20%	50V		C531	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C462	1-126-947-11	ELECT	47uF	20%	35V		C532	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C463	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V								
C464	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C533	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
							C534	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C465	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C535	1-126-947-11	ELECT	47uF	20%	35V	
C466	1-126-947-11	ELECT	47uF	20%	35V	(AR, E12, E32, MX, SP)	C536	1-126-947-11	ELECT	47uF	20%	35V	
							C538	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	
C467	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	(AR, E12, E32, MX, SP)	C651	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V (EA)	
C468	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V	(AR, E12, E32, MX, SP)	C705	1-126-964-11	ELECT	10uF	20%	50V	
							C706	1-126-964-11	ELECT	10uF	20%	50V	
C469	1-126-964-11	ELECT	10uF	20%	50V	(AR, E12, E32, MX, SP)	C707	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
							C708	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C470	1-126-947-11	ELECT	47uF	20%	35V	(AR, E12, E32, MX, SP)	C717	1-126-964-11	ELECT	10uF	20%	50V	
							C718	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	
C471	1-162-927-11	CERAMIC CHIP	100PF	5%	50V	(AR, E12, E32, MX, SP)	C1101	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C1102	1-125-837-91	CERAMIC CHIP	1uF	10%	6.3V	
C501	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C1105	1-126-947-11	ELECT	47uF	20%	35V	
C502	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V								
C503	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V		C1106	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
							C1110	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
C1112	1-128-994-21	ELECT CHIP	47uF	20%	10V	C1181	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1113	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1182	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1114	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1183	1-128-934-91	CERAMIC CHIP	0.33uF	20%	10V
C1115	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1184	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1116	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1186	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1117	1-124-779-00	ELECT CHIP	10uF	20%	16V	C1187	1-126-947-11	ELECT	47uF	20%	35V
C1118	1-126-964-11	ELECT	10uF	20%	50V	C1190	1-104-658-91	ELECT	100uF	20%	10V
C1119	1-126-964-11	ELECT	10uF	20%	50V	C1191	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1120	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1192	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1121	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1193	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1122	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1195	1-127-715-91	CERAMIC CHIP	0.22uF	10%	16V
C1123	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1197	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1124	1-165-908-11	CERAMIC CHIP	1uF	10%	10V	C1198	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C1125	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1199	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1126	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1203	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1127	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1205	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1128	1-164-172-11	CERAMIC CHIP	0.0056uF	10%	25V	C1206	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C1130	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1208	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1131	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1209	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1132	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1210	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1133	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1211	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V
C1135	1-164-677-11	CERAMIC CHIP	0.033uF	10%	16V	C1212	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1136	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1213	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1137	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1214	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1138	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C1215	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1139	1-162-919-11	CERAMIC CHIP	22PF	5%	50V	C1217	1-126-947-11	ELECT	47uF	20%	35V
C1140	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1218	1-126-964-11	ELECT	10uF	20%	50V
C1144	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C1219	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1145	1-124-779-00	ELECT CHIP	10uF	20%	16V	C1220	1-126-964-11	ELECT	10uF	20%	50V
C1146	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1221	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1147	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C1222	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1148	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V	C1223	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1149	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1224	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1150	1-124-779-00	ELECT CHIP	10uF	20%	16V	C1225	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1151	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C1226	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1152	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	C1233	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C1153	1-162-916-11	CERAMIC CHIP	12PF	5%	50V	C1602	1-128-994-21	ELECT CHIP	47uF	20%	10V
C1154	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C1603	1-128-994-21	ELECT CHIP	47uF	20%	10V
C1155	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2103	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1156	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1157	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2105	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1158	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2106	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1160	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2107	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1161	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2108	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C1162	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2110	1-104-658-91	ELECT	100uF	20%	10V
C1163	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2111	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C1164	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C2114	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1169	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C2130	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C1170	1-124-779-00	ELECT CHIP	10uF	20%	16V	C3000	1-126-382-11	ELECT	100uF	20%	16V
C1171	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3001	1-126-947-11	ELECT	47uF	20%	35V
C1172	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3002	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C1173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V	C3003	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1174	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	C3004	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C1175	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						(EXCEPT EA)
C1176	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V						50V
C1177	1-126-947-11	ELECT	47uF	20%	35V						(EXCEPT EA)
C1179	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3011	1-126-947-11	ELECT	47uF	20%	35V
C1180	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	C3012	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V

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MAIN

Ref. No.	Part No.	Description			Remark
C3013	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3014	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3015	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3016	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3017	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3018	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3019	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3020	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3021	1-126-947-11	ELECT	47uF	20%	35V
C3022	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3023	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3024	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3025	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3026	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3027	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3028	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3029	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3030	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3031	1-126-947-11	ELECT	47uF	20%	35V
C3032	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3033	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3034	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3035	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3036	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3037	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3038	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3039	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3040	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3051	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C3052	1-165-908-11	CERAMIC CHIP	1uF	10%	10V
C3053	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V (EA)
C3054	1-126-933-11	ELECT	100uF	20%	16V
C3055	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3056	1-126-923-91	ELECT	220uF	20%	10V
C3057	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3058	1-162-910-11	CERAMIC CHIP	5PF	0.25PF	50V
C3059	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3060	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C3067	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3068	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3069	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C3070	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3071	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C3072	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3073	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C3091	1-126-934-11	ELECT	220uF	20%	16V
C3100	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3103	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3104	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3105	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3106	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3107	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3108	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3109	1-112-246-11	ELECT	100uF	20%	35V
C3112	1-112-246-11	ELECT	100uF	20%	35V
C3113	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3114	1-137-198-81	FILM	1uF	5%	50V
C3115	1-137-198-81	FILM	1uF	5%	50V

Ref. No.	Part No.	Description			Remark
C3116	1-112-831-11	ELECT	2200uF	20%	35V
C3117	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V (EXCEPT EA)
C3122	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3123	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3124	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3125	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3126	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3127	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3128	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C3129	1-117-370-11	CERAMIC CHIP	10uF		10V
C3150	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3153	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3154	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3155	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3156	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3157	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3158	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3159	1-112-246-11	ELECT	100uF	20%	35V
C3162	1-112-246-11	ELECT	100uF	20%	35V
C3163	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3164	1-137-198-81	FILM	1uF	5%	50V
C3165	1-137-198-81	FILM	1uF	5%	50V
C3166	1-112-831-11	ELECT	2200uF	20%	35V
C3167	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V (EXCEPT EA)
C3172	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3173	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C3200	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3203	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3205	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3206	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3207	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3208	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3209	1-112-246-11	ELECT	100uF	20%	35V
C3212	1-112-246-11	ELECT	100uF	20%	35V
C3213	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3214	1-137-198-81	FILM	1uF	5%	50V
C3215	1-137-198-81	FILM	1uF	5%	50V
C3216	1-112-831-11	ELECT	2200uF	20%	35V
C3217	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V (EXCEPT EA)
C3250	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3253	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3254	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C3255	1-107-725-11	CERAMIC CHIP	0.1uF	10%	16V
C3256	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3257	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C3258	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3259	1-112-246-11	ELECT	100uF	20%	35V
C3262	1-112-246-11	ELECT	100uF	20%	35V
C3263	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V
C3264	1-137-198-81	FILM	1uF	5%	50V
C3265	1-137-198-81	FILM	1uF	5%	50V
C3266	1-112-831-11	ELECT	2200uF	20%	35V
C3267	1-104-329-11	CERAMIC CHIP	0.1uF	10%	50V (EXCEPT EA)

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C3300	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V	CN702	1-815-381-11	CONNECTOR, FPC/FFC 5P (EA)	
C3303	1-107-725-11	CERAMIC CHIP	0.1uF 10% 16V	CN1101	1-815-763-32	CONNECTOR, FFC/FPC 24P	
C3304	1-164-156-11	CERAMIC CHIP	0.1uF 25V	* CN1105	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
C3305	1-107-725-11	CERAMIC CHIP	0.1uF 10% 16V	* CN1201	1-770-470-21	PIN, CONNECTOR (PC BOARD) 6P	
C3306	1-115-185-11	CERAMIC CHIP	0.033uF 10% 50V	CN1202	1-784-365-51	CONNECTOR, FFC/FPC 5P	
C3307	1-115-185-11	CERAMIC CHIP	0.033uF 10% 50V	CN3000	1-564-704-41	PIN, CONNECTOR (SMALL TYPE) 2P	
C3308	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V	CN3002	1-785-102-11	PIN, CONNECTOR (3.96mm PITCH) 4P	
C3309	1-112-246-11	ELECT	100uF 20% 35V	CN4302	1-784-370-51	CONNECTOR, FFC/FPC 11P	
C3312	1-112-246-11	ELECT	100uF 20% 35V	< DIODE >			
C3313	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V	D451	6-501-579-01	DIODE MC2837	
C3314	1-137-198-81	FILM	1uF 5% 50V	D453	6-501-579-01	DIODE MC2837	
C3315	1-137-198-81	FILM	1uF 5% 50V	D455	6-501-579-01	DIODE MC2837	
C3316	1-112-831-11	ELECT	2200uF 20% 35V	D456	6-501-579-01	DIODE MC2837	
C3317	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V (EXCEPT EA)	D460	8-719-083-58	DIODE UDZSTE-173.9B	(AR, E12, E32, MX, SP)
C3322	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D501	6-501-193-01	DIODE 1SS355WTE-17	
C3323	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D502	6-501-193-01	DIODE 1SS355WTE-17	
C3400	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V	D504	6-501-193-01	DIODE 1SS355WTE-17	
C3403	1-107-725-11	CERAMIC CHIP	0.1uF 10% 16V	D505	6-500-334-01	DIODE MC2836-T112-1	
C3404	1-164-156-11	CERAMIC CHIP	0.1uF 25V	D506	6-501-193-01	DIODE 1SS355WTE-17 (EXCEPT EA)	
C3405	1-107-725-11	CERAMIC CHIP	0.1uF 10% 16V	D701	6-501-579-01	DIODE MC2837	
C3406	1-115-185-11	CERAMIC CHIP	0.033uF 10% 50V	D3071	6-501-193-01	DIODE 1SS355WTE-17	
C3407	1-115-185-11	CERAMIC CHIP	0.033uF 10% 50V	D3072	6-501-193-01	DIODE 1SS355WTE-17	
C3408	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V	D3073	6-501-193-01	DIODE 1SS355WTE-17	
C3409	1-112-246-11	ELECT	100uF 20% 35V	D3551	6-501-579-01	DIODE MC2837	
C3412	1-112-246-11	ELECT	100uF 20% 35V	D4111	6-501-696-01	DIODE RSA39LATE25	
C3413	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V	D4112	6-501-696-01	DIODE RSA39LATE25	
C3414	1-137-198-81	FILM	1uF 5% 50V	D4151	6-501-696-01	DIODE RSA39LATE25	
C3415	1-137-198-81	FILM	1uF 5% 50V	D4152	6-501-696-01	DIODE RSA39LATE25	
C3416	1-112-831-11	ELECT	2200uF 20% 35V	D4201	6-501-696-01	DIODE RSA39LATE25	
C3417	1-104-329-11	CERAMIC CHIP	0.1uF 10% 50V (EXCEPT EA)	D4202	6-501-696-01	DIODE RSA39LATE25	
C3422	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D4251	6-501-696-01	DIODE RSA39LATE25	
C3423	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	D4252	6-501-696-01	DIODE RSA39LATE25	
C3551	1-126-960-11	ELECT	1uF 20% 50V	D4301	6-501-696-01	DIODE RSA39LATE25	
C3552	1-126-964-11	ELECT	10uF 20% 50V	D4302	6-501-696-01	DIODE RSA39LATE25	
C3553	1-164-505-11	CERAMIC CHIP	2.2uF 16V	D4401	6-501-696-01	DIODE RSA39LATE25	
C3556	1-164-505-11	CERAMIC CHIP	2.2uF 16V	D4402	6-501-696-01	DIODE RSA39LATE25	
C3901	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	< TERMINAL GROUND >			
C3902	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	EB505	1-537-738-21	TERMINAL, GROUND (EA)	
C3903	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	EB702	1-537-738-21	TERMINAL, GROUND (EA)	
C3904	1-162-964-11	CERAMIC CHIP	0.001uF 10% 50V	EB1701	1-537-738-21	TERMINAL, GROUND (EA)	
C3911	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	EB1703	1-537-738-21	TERMINAL, GROUND (EA)	
C3912	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	EB3001	1-537-738-21	TERMINAL, GROUND (EA)	
C3913	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	EB3002	1-537-738-21	TERMINAL, GROUND (EA)	
C3914	1-163-021-91	CERAMIC CHIP	0.01uF 10% 50V	EB3004	1-537-738-21	TERMINAL, GROUND (EA)	
C4501	1-117-370-11	CERAMIC CHIP	10uF 10V	< FERRITE BEAD >			
C4502	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB504	1-469-324-21	FERRITE, EMI (SMD) (2012)	
C4504	1-162-970-11	CERAMIC CHIP	0.01uF 10% 25V	FB505	1-469-324-21	FERRITE, EMI (SMD) (2012)	
< CONNECTOR >				FB506	1-469-324-21	FERRITE, EMI (SMD) (2012)	
CN451	1-820-048-11	CONNECTOR (LIGHTING) (D-LIGHT SYSNC OUT)(AR, E12, E32, MX, SP)		FB507	1-469-324-21	FERRITE, EMI (SMD) (2012)	
CN502	1-778-692-51	CONNECTOR, FFC/FPC 21P		FB508	1-469-324-21	FERRITE, EMI (SMD) (2012)	
CN607	1-784-376-51	CONNECTOR, FFC/FPC 17P		FB509	1-469-324-21	FERRITE, EMI (SMD) (2012)	
CN651	1-779-279-11	CONNECTOR, FFC (LIF (NON-ZIF)) 11P (EXCEPT RU)		FB510	1-469-324-21	FERRITE, EMI (SMD) (2012)	
CN702	1-779-273-11	CONNECTOR, FFC (LIF (NON-ZIF)) 5P (EXCEPT EA)		FB1106	1-469-324-21	FERRITE, EMI (SMD) (2012)	

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Ref. No.	Part No.	Description	Remark
FB1107	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1108	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1111	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1112	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1115	1-469-670-21	FERRITE, EMI (SMD) (2012)	
FB1123	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1601	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1602	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB1603	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB2101	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB2103	1-469-324-21	FERRITE, EMI (SMD) (2012)	
FB2120	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2121	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2122	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2123	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2124	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB2125	1-469-118-21	FERRITE, EMI (SMD) (1608)	
FB3051	1-216-295-91	SHORT CHIP 0	
		< FILTER >	
FL1111	1-234-494-21	FILTER, EMI REMOVAL (SMD)	
FL4501	1-234-177-21	FILTER, CHIP EMI	
		< IC >	
IC451	8-759-710-97	IC NJM4565M-D	
IC452	8-759-700-07	IC NJM2903M	
IC453	8-759-700-07	IC NJM2903M	
IC454	8-759-100-96	IC uPC4558G2 (AR, E12, E32, MX, SP)	
IC501	6-807-590-01	IC M30622MEP-B32FPU0	
IC502	6-702-302-01	IC TK11133CSCL-G (EA)	
IC502	6-705-312-01	IC S-T111B33MC-OGSTFG (EXCEPT EA)	
IC503	6-708-922-01	IC PST3635NR	
IC504	6-709-034-01	IC NJM2887DL3 (TE2)	
IC651	6-706-487-01	IC TC7SH08FU (T5RSOYJF)(EA)	
IC772	6-710-554-01	IC PCM1808PWR	
IC1101	6-710-093-01	IC CXD9889R	
IC1102	6-807-168-01	IC S29AL032D70TF-OBA1-0701UC	(AR, E32, MX)
IC1102	6-807-169-01	IC S29AL032D70TF-OBA1-0701CE	(E3, EA, E12, AUS, RU)
IC1102	6-807-170-01	IC S29AL032D70TF-OBA1-0701GA	(KR, SP, TW)
IC1103	not supplied	IC BR24L64F-WE2	
IC1104	6-709-737-01	IC M12L64164A-7T (G)	
IC1105	6-702-302-01	IC TK11133CSCL-G	
IC1107	6-702-302-01	IC TK11133CSCL-G	
IC1110	6-707-739-01	IC MM1661JTRE	
IC1111	6-704-100-01	IC TC7PAU04FU (TE85R)	
IC1201	6-704-524-01	IC FAN8036L	
IC3003	8-759-680-48	IC TC7WH157FK (TE85R)	
IC3010	6-707-939-01	IC CXD9843AR	
IC3020	6-707-939-01	IC CXD9843AR	
IC3030	6-707-939-01	IC CXD9843AR	
IC3050	6-702-300-01	IC TK11118CSCL-G (EA)	
IC3050	6-705-311-01	IC S-T111B18MC-OGDTFG (EXCEPT EA)	
IC3051	6-706-492-01	IC TC7SHU04FU (T5RSOJF)	
IC3100	6-708-921-01	IC CXD9883M	

Ref. No.	Part No.	Description	Remark
IC3150	6-708-921-01	IC CXD9883M	
IC3200	6-708-921-01	IC CXD9883M	
IC3250	6-708-921-01	IC CXD9883M	
IC3300	6-708-921-01	IC CXD9883M	
IC3400	6-708-921-01	IC CXD9883M	
IC4501	8-759-573-97	IC SN74LVC541APWR	
		< COIL >	
L701	1-414-754-11	INDUCTOR	10uH
L3000	1-469-527-91	INDUCTOR	47uH
L3051	1-414-754-11	INDUCTOR	10uH
L3052	1-414-754-11	INDUCTOR	10uH
L3053	1-414-754-11	INDUCTOR	10uH
L3054	1-412-939-11	INDUCTOR	1uH
L3111	1-456-680-11	INDUCTOR	10uH
L3112	1-456-680-11	INDUCTOR	10uH
L3151	1-456-680-11	INDUCTOR	10uH
L3152	1-456-680-11	INDUCTOR	10uH
L3201	1-456-680-11	INDUCTOR	10uH
L3202	1-456-680-11	INDUCTOR	10uH
L3251	1-456-680-11	INDUCTOR	10uH
L3252	1-456-680-11	INDUCTOR	10uH
L3301	1-456-680-11	INDUCTOR	10uH
L3302	1-456-680-11	INDUCTOR	10uH
L3401	1-456-680-11	INDUCTOR	10uH
L3402	1-456-680-11	INDUCTOR	10uH
L3901	1-457-077-11	AIR-CORE COIL (EXCEPT EA)	
L3901	1-457-077-21	AIR-CORE COIL (EA)	
L3902	1-457-078-11	AIR-CORE COIL (EXCEPT EA)	
L3902	1-457-078-21	AIR-CORE COIL (EA)	
L3903	1-457-077-11	AIR-CORE COIL (EXCEPT EA)	
L3903	1-457-077-21	AIR-CORE COIL (EA)	
L3904	1-457-078-11	AIR-CORE COIL (EXCEPT EA)	
L3904	1-457-078-21	AIR-CORE COIL (EA)	
		< TRANSISTOR >	
Q503	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
Q504	6-550-718-01	TRANSISTOR	RSR025N03TL
Q631	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (EA)
Q632	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF (EA)
Q651	8-729-027-52	TRANSISTOR	DTA114EKA-T146
			(EXCEPT EA, RU)
Q652	8-729-027-52	TRANSISTOR	DTA114EKA-T146
			(EXCEPT EA, RU)
Q1101	6-550-008-01	TRANSISTOR	UM6K1N-TN
Q1102	6-550-653-01	TRANSISTOR	QST8TR
Q1103	8-729-027-52	TRANSISTOR	DTC124EKA-T146
Q3000	8-729-142-48	TRANSISTOR	2SD1616-TP-LK
Q3001	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
Q3002	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF
Q3101	8-729-600-22	TRANSISTOR	2SA1235-F
Q3102	8-729-600-22	TRANSISTOR	2SA1235-F
Q3151	8-729-600-22	TRANSISTOR	2SA1235-F
Q3152	8-729-600-22	TRANSISTOR	2SA1235-F
Q3201	8-729-600-22	TRANSISTOR	2SA1235-F
Q3202	8-729-600-22	TRANSISTOR	2SA1235-F
Q3251	8-729-600-22	TRANSISTOR	2SA1235-F
Q3252	8-729-600-22	TRANSISTOR	2SA1235-F

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
Q3301	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-216-833-11	METAL CHIP	10K	5%	1/10W (E3, EA)
Q3302	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-216-835-11	METAL CHIP	15K	5%	1/10W (AUS)
Q3401	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-216-841-11	METAL CHIP	47K	5%	1/10W (RU, AR, E32, MX, KR)
Q3402	8-729-600-22	TRANSISTOR	2SA1235-F			R504	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (E12)
Q3551	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF								
Q3552	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF								
Q3553	8-729-620-07	TRANSISTOR	2SC3052EF-T1-LEF								
< RESISTOR >											
R146	1-216-805-11	METAL CHIP	47	5%	1/10W						
R451	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R452	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R453	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R454	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R455	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R456	1-216-853-11	METAL CHIP	470K	5%	1/10W						
R457	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R458	1-216-864-11	SHORT CHIP	0								
R459	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R460	1-216-851-11	METAL CHIP	330K	5%	1/10W						
R461	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R462	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R463	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R464	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R465	1-216-837-11	METAL CHIP	22K	5%	1/10W						
R466	1-216-842-11	METAL CHIP	56K	5%	1/10W						
R467	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R469	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R470	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R471	1-216-825-11	METAL CHIP	2.2K	5%	1/10W						
R473	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R474	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R476	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R477	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R479	1-216-829-11	METAL CHIP	4.7K	5%	1/10W						
R480	1-216-864-11	SHORT CHIP	0								
R481	1-216-864-11	SHORT CHIP	0								
R482	1-216-864-11	SHORT CHIP	0								
R483	1-216-864-11	SHORT CHIP	0								
R484	1-216-864-11	SHORT CHIP	0								
R487	1-216-809-11	METAL CHIP	100	5%	1/10W (AR, E12, E32, MX, SP)						
R488	1-216-845-11	METAL CHIP	100K	5%	1/10W (AR, E12, E32, MX, SP)						
△ R489	1-260-320-11	CARBON	220	5%	1/2W F (AR, E12, E32, MX, SP)						
R490	1-216-842-11	METAL CHIP	56K	5%	1/10W (AR, E12, E32, MX, SP)						
R491	1-216-817-11	METAL CHIP	470	5%	1/10W (AR, E12, E32, MX, SP)						
R492	1-216-835-11	METAL CHIP	15K	5%	1/10W (AR, E12, E32, MX, SP)						
R493	1-216-845-11	METAL CHIP	100K	5%	1/10W (AR, E12, E32, MX, SP)						
R494	1-216-864-11	SHORT CHIP	0		(RU, E3, EA, AUS, KR, TW)						
R501	1-216-857-11	METAL CHIP	1M	5%	1/10W						
R504	1-216-821-11	METAL CHIP	1K	5%	1/10W (SP, TW)						
R504	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R504	1-216-835-11	METAL CHIP	15K	5%	1/10W						
R504	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R504	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W						
R505	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (RU)						
R505	1-216-833-11	METAL CHIP	10K	5%	1/10W (E32, MX)						
R505	1-216-835-11	METAL CHIP	15K	5%	1/10W (KR)						
R505	1-216-841-11	METAL CHIP	47K	5%	1/10W (E3, EA, E12, AUS)						
R505	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W (AR)						
R506	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
R507	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R508	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R509	1-216-809-11	METAL CHIP	100	5%	1/10W						
R510	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R511	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R512	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R513	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R514	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R515	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R516	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R517	1-216-809-11	METAL CHIP	100	5%	1/10W						
R518	1-216-809-11	METAL CHIP	100	5%	1/10W						
R519	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R526	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R527	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R528	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R529	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R530	1-216-809-11	METAL CHIP	100	5%	1/10W						
R531	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R532	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R533	1-216-809-11	METAL CHIP	100	5%	1/10W						
R534	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R535	1-216-809-11	METAL CHIP	100	5%	1/10W						
R536	1-216-864-11	SHORT CHIP	0								
R539	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R540	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R542	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R546	1-216-833-11	METAL CHIP	10K	5%	1/10W (EA, RU)						
R550	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R552	1-216-821-11	METAL CHIP	1K	5%	1/10W						
R554	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R555	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R556	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R557	1-216-841-11	METAL CHIP	47K	5%	1/10W						
R558	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R559	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R560	1-216-833-11	METAL CHIP	10K	5%	1/10W						
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R562	1-216-841-11	METAL CHIP	47K	5%	1/10W						

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Ref. No.	Part No.	Description	Remark		
R563	1-216-833-11	METAL CHIP	10K	5%	1/10W
R572	1-218-751-11	METAL CHIP	300K	0.5%	1/10W
R573	1-216-845-11	METAL CHIP	100K	5%	1/10W
R575	1-216-821-11	METAL CHIP	1K	5%	1/10W
R576	1-216-821-11	METAL CHIP	1K	5%	1/10W
R577	1-216-841-11	METAL CHIP	47K	5%	1/10W
R578	1-216-809-11	METAL CHIP	100	5%	1/10W
R579	1-216-821-11	METAL CHIP	1K	5%	1/10W
R580	1-216-809-11	METAL CHIP	100	5%	1/10W
R581	1-216-809-11	METAL CHIP	100	5%	1/10W
R583	1-216-841-11	METAL CHIP	47K	5%	1/10W
R586	1-216-833-11	METAL CHIP	10K	5%	1/10W
R587	1-216-833-11	METAL CHIP	10K	5%	1/10W
R589	1-216-295-91	SHORT CHIP	0		
R590	1-216-295-91	SHORT CHIP	0		
R596	1-216-295-91	SHORT CHIP	0		
R597	1-216-295-91	SHORT CHIP	0		
R598	1-216-296-11	SHORT CHIP	0		
R599	1-216-295-91	SHORT CHIP	0		
R601	1-216-864-11	SHORT CHIP	0		
R602	1-216-809-11	METAL CHIP	100	5%	1/10W
R603	1-216-809-11	METAL CHIP	100	5%	1/10W
R604	1-216-809-11	METAL CHIP	100	5%	1/10W
R605	1-216-809-11	METAL CHIP	100	5%	1/10W
R606	1-216-809-11	METAL CHIP	100	5%	1/10W
R607	1-216-809-11	METAL CHIP	100	5%	1/10W
R608	1-216-809-11	METAL CHIP	100	5%	1/10W
R609	1-216-809-11	METAL CHIP	100	5%	1/10W
R610	1-216-809-11	METAL CHIP	100	5%	1/10W
R611	1-216-809-11	METAL CHIP	100	5%	1/10W
R612	1-216-809-11	METAL CHIP	100	5%	1/10W
R613	1-216-809-11	METAL CHIP	100	5%	1/10W
R614	1-216-809-11	METAL CHIP	100	5%	1/10W
R615	1-216-809-11	METAL CHIP	100	5%	1/10W
R631	1-216-833-11	METAL CHIP	10K	5%	1/10W (EA)
R632	1-216-841-11	METAL CHIP	47K	5%	1/10W (EA)
R636	1-216-864-11	SHORT CHIP	0		
R637	1-216-809-11	METAL CHIP	100	5%	1/10W
R638	1-216-809-11	METAL CHIP	100	5%	1/10W
R640	1-216-809-11	METAL CHIP	100	5%	1/10W
R641	1-216-809-11	METAL CHIP	100	5%	1/10W
R642	1-216-809-11	METAL CHIP	100	5%	1/10W
R651	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R652	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R653	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R654	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R655	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R656	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R657	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R658	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)

Ref. No.	Part No.	Description	Remark		
R659	1-216-809-11	METAL CHIP	100	5%	1/10W (EXCEPT RU)
R660	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT EA, RU)
R661	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT EA, RU)
R691	1-216-864-11	SHORT CHIP	0		
R692	1-216-864-11	SHORT CHIP	0		
R693	1-216-864-11	SHORT CHIP	0		
R694	1-216-864-11	SHORT CHIP	0		
R695	1-216-864-11	SHORT CHIP	0		
R696	1-216-864-11	SHORT CHIP	0		
R701	1-216-813-11	METAL CHIP	220	5%	1/10W
R702	1-216-864-11	SHORT CHIP	0		
R721	1-216-864-11	SHORT CHIP	0		
R770	1-216-809-11	METAL CHIP	100	5%	1/10W
R775	1-216-801-11	METAL CHIP	22	5%	1/10W
R776	1-216-801-11	METAL CHIP	22	5%	1/10W
R777	1-216-801-11	METAL CHIP	22	5%	1/10W
R778	1-216-864-11	SHORT CHIP	0		
R780	1-216-805-11	METAL CHIP	47	5%	1/10W
R781	1-216-805-11	METAL CHIP	47	5%	1/10W
R782	1-216-801-11	METAL CHIP	22	5%	1/10W
R783	1-216-801-11	METAL CHIP	22	5%	1/10W
R784	1-216-801-11	METAL CHIP	22	5%	1/10W
R785	1-216-801-11	METAL CHIP	22	5%	1/10W
R786	1-216-295-91	SHORT CHIP	0		
R790	1-216-864-11	SHORT CHIP	0		
R1101	1-216-809-11	METAL CHIP	100	5%	1/10W
R1102	1-216-295-91	SHORT CHIP	0		
R1103	1-216-864-11	SHORT CHIP	0		
R1105	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1106	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1107	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1108	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1109	1-216-864-11	SHORT CHIP	0		
R1110	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1111	1-216-809-11	METAL CHIP	100	5%	1/10W
R1112	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1113	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1114	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1115	1-211-977-11	METAL CHIP	22	0.5%	1/10W
R1116	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1117	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1118	1-216-801-11	METAL CHIP	22	5%	1/10W
R1120	1-216-801-11	METAL CHIP	22	5%	1/10W
R1121	1-216-801-11	METAL CHIP	22	5%	1/10W
R1123	1-216-864-11	SHORT CHIP	0		
R1124	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1125	1-216-805-11	METAL CHIP	47	5%	1/10W
R1132	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1133	1-216-864-11	SHORT CHIP	0		
R1135	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1136	1-216-835-11	METAL CHIP	15K	5%	1/10W
R1137	1-216-864-11	SHORT CHIP	0		
R1138	1-216-809-11	METAL CHIP	100	5%	1/10W
R1139	1-216-864-11	SHORT CHIP	0		
R1140	1-216-833-11	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R1141	1-216-855-11	METAL CHIP	680K	5%	1/10W	R1602	1-216-295-91	SHORT CHIP	0		
R1142	1-216-845-11	METAL CHIP	100K	5%	1/10W	R1603	1-216-295-91	SHORT CHIP	0		
R1145	1-216-864-11	SHORT CHIP	0			R1604	1-216-295-91	SHORT CHIP	0		
R1147	1-216-864-11	SHORT CHIP	0			R1605	1-216-296-11	SHORT CHIP	0		
R1148	1-216-864-11	SHORT CHIP	0			R1606	1-216-295-91	SHORT CHIP	0		
R1151	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2101	1-218-855-11	METAL CHIP	2.2K	0.5%	1/10W
R1152	1-216-864-11	SHORT CHIP	0			R2103	1-216-864-11	SHORT CHIP	0		
R1153	1-216-864-11	SHORT CHIP	0			R2104	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1154	1-216-864-11	SHORT CHIP	0			R2108	1-216-864-11	SHORT CHIP	0		
R1155	1-216-864-11	SHORT CHIP	0			R2110	1-216-826-11	METAL CHIP	2.7K	5%	1/10W
R1156	1-216-809-11	METAL CHIP	100	5%	1/10W	R2111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1159	1-216-805-11	METAL CHIP	47	5%	1/10W	R2112	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1160	1-216-805-11	METAL CHIP	47	5%	1/10W	R2114	1-216-801-11	METAL CHIP	22	5%	1/10W
R1161	1-216-801-11	METAL CHIP	22	5%	1/10W	R2115	1-216-864-11	SHORT CHIP	0		
R1169	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2119	1-216-864-11	SHORT CHIP	0		
R1171	1-216-809-11	METAL CHIP	100	5%	1/10W	R2126	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1175	1-216-864-11	SHORT CHIP	0			R2127	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1183	1-216-805-11	METAL CHIP	47	5%	1/10W	R2128	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1184	1-216-805-11	METAL CHIP	47	5%	1/10W	R2129	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1185	1-216-805-11	METAL CHIP	47	5%	1/10W	R2133	1-216-864-11	SHORT CHIP	0		
R1191	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2134	1-216-864-11	SHORT CHIP	0		
R1193	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2135	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1204	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	R2150	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1205	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2151	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1206	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2152	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1207	1-216-826-11	METAL CHIP	2.7K	5%	1/10W	R2161	1-216-809-11	METAL CHIP	100	5%	1/10W
R1208	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2167	1-216-864-11	SHORT CHIP	0		
R1209	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2168	1-216-813-11	METAL CHIP	220	5%	1/10W
R1210	1-216-841-11	METAL CHIP	47K	5%	1/10W	R2176	1-216-864-11	SHORT CHIP	0		
R1212	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2177	1-216-809-11	METAL CHIP	100	5%	1/10W
R1213	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W	R2178	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1214	1-216-835-11	METAL CHIP	15K	5%	1/10W	R2179	1-216-809-11	METAL CHIP	100	5%	1/10W
R1215	1-216-834-11	METAL CHIP	12K	5%	1/10W	R2182	1-216-864-11	SHORT CHIP	0		
R1216	1-216-834-11	METAL CHIP	12K	5%	1/10W	R2184	1-216-809-11	METAL CHIP	100	5%	1/10W
R1219	1-216-838-11	METAL CHIP	27K	5%	1/10W	R2185	1-216-809-11	METAL CHIP	100	5%	1/10W
R1220	1-216-821-11	METAL CHIP	1K	5%	1/10W	R2187	1-216-805-11	METAL CHIP	47	5%	1/10W
R1221	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R2188	1-216-864-11	SHORT CHIP	0		
R1222	1-216-839-11	METAL CHIP	33K	5%	1/10W	R2191	1-216-809-11	METAL CHIP	100	5%	1/10W
R1223	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R2506	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1224	1-216-833-11	METAL CHIP	10K	5%	1/10W	R2507	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1225	1-218-895-11	METAL CHIP	100K	0.5%	1/10W	R3001	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1226	1-218-889-11	METAL CHIP	56K	0.5%	1/10W	R3002	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1227	1-216-864-11	SHORT CHIP	0			R3003	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R1228	1-216-864-11	SHORT CHIP	0			R3004	1-216-822-11	METAL CHIP	1.2K	5%	1/10W
R1230	1-218-893-11	METAL CHIP	82K	0.5%	1/10W	R3006	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R1231	1-218-875-11	METAL CHIP	15K	0.5%	1/10W	R3011	1-216-817-11	METAL CHIP	470	5%	1/10W
R1232	1-218-877-11	METAL CHIP	18K	0.5%	1/10W	R3012	1-216-817-11	METAL CHIP	470	5%	1/10W
R1233	1-218-883-11	METAL CHIP	33K	0.5%	1/10W	R3013	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1234	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3014	1-216-801-11	METAL CHIP	22	5%	1/10W
R1236	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3015	1-216-809-11	METAL CHIP	100	5%	1/10W
R1237	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3017	1-216-819-11	METAL CHIP	680	5%	1/10W
R1238	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3021	1-216-817-11	METAL CHIP	470	5%	1/10W
R1239	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3022	1-216-817-11	METAL CHIP	470	5%	1/10W
R1243	1-216-809-11	METAL CHIP	100	5%	1/10W	R3023	1-216-801-11	METAL CHIP	22	5%	1/10W
R1246	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	R3024	1-216-809-11	METAL CHIP	100	5%	1/10W
R1247	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3026	1-216-819-11	METAL CHIP	680	5%	1/10W
R1601	1-216-295-91	SHORT CHIP	0			R3031	1-216-817-11	METAL CHIP	470	5%	1/10W
						R3032	1-216-817-11	METAL CHIP	470	5%	1/10W

HCD-DZ150K/DZ151KB

MAIN

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R3033	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3176	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3034	1-216-801-11	METAL CHIP	22	5%	1/10W	R3177	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3035	1-216-809-11	METAL CHIP	100	5%	1/10W	R3201	1-216-809-11	METAL CHIP	100	5%	1/10W
R3037	1-216-819-11	METAL CHIP	680	5%	1/10W	R3202	1-216-809-11	METAL CHIP	100	5%	1/10W
R3040	1-216-864-11	SHORT CHIP	0			R3203	1-216-864-11	SHORT CHIP	0		
R3041	1-216-864-11	SHORT CHIP	0			R3204	1-216-864-11	SHORT CHIP	0		
R3042	1-216-864-11	SHORT CHIP	0			R3207	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3043	1-216-864-11	SHORT CHIP	0			R3215	1-216-864-11	SHORT CHIP	0		
R3044	1-216-864-11	SHORT CHIP	0			R3216	1-216-864-11	SHORT CHIP	0		
R3045	1-216-864-11	SHORT CHIP	0			R3225	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3046	1-216-864-11	SHORT CHIP	0			R3226	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3051	1-216-097-11	RES-CHIP	100K	5%	1/10W	R3227	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3052	1-216-857-11	METAL CHIP	1M	5%	1/10W	R3251	1-216-809-11	METAL CHIP	100	5%	1/10W
R3053	1-216-809-11	METAL CHIP	100	5%	1/10W	R3252	1-216-809-11	METAL CHIP	100	5%	1/10W
R3054	1-216-801-11	METAL CHIP	22	5%	1/10W	R3253	1-216-864-11	SHORT CHIP	0		
R3055	1-216-809-11	METAL CHIP	100	5%	1/10W	R3254	1-216-864-11	SHORT CHIP	0		
R3057	1-216-809-11	METAL CHIP	100	5%	1/10W	R3257	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3059	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3265	1-216-864-11	SHORT CHIP	0		
R3060	1-216-833-11	METAL CHIP	10K	5%	1/10W	R3266	1-216-864-11	SHORT CHIP	0		
R3061	1-216-864-11	SHORT CHIP	0			R3275	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3063	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3276	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3064	1-216-821-11	METAL CHIP	1K	5%	1/10W	R3277	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3065	1-216-809-11	METAL CHIP	100	5%	1/10W	R3301	1-216-809-11	METAL CHIP	100	5%	1/10W
R3066	1-216-809-11	METAL CHIP	100	5%	1/10W	R3302	1-216-809-11	METAL CHIP	100	5%	1/10W
R3067	1-216-809-11	METAL CHIP	100	5%	1/10W	R3303	1-216-864-11	SHORT CHIP	0		
R3068	1-216-809-11	METAL CHIP	100	5%	1/10W	R3304	1-216-864-11	SHORT CHIP	0		
R3069	1-216-809-11	METAL CHIP	100	5%	1/10W	R3307	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3070	1-216-809-11	METAL CHIP	100	5%	1/10W	R3315	1-216-864-11	SHORT CHIP	0		
R3071	1-216-809-11	METAL CHIP	100	5%	1/10W	R3316	1-216-864-11	SHORT CHIP	0		
R3072	1-216-809-11	METAL CHIP	100	5%	1/10W	R3325	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3073	1-216-809-11	METAL CHIP	100	5%	1/10W	R3326	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3074	1-216-809-11	METAL CHIP	100	5%	1/10W	R3327	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3075	1-216-809-11	METAL CHIP	100	5%	1/10W	R3403	1-216-864-11	SHORT CHIP	0		
R3076	1-216-809-11	METAL CHIP	100	5%	1/10W	R3404	1-216-864-11	SHORT CHIP	0		
R3077	1-216-809-11	METAL CHIP	100	5%	1/10W	R3407	1-216-835-11	METAL CHIP	15K	5%	1/10W
R3078	1-216-809-11	METAL CHIP	100	5%	1/10W	R3415	1-216-864-11	SHORT CHIP	0		
R3079	1-216-809-11	METAL CHIP	100	5%	1/10W	R3416	1-216-864-11	SHORT CHIP	0		
R3080	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3425	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3097	1-216-809-11	METAL CHIP	100	5%	1/10W	R3426	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3101	1-216-809-11	METAL CHIP	100	5%	1/10W	R3427	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3102	1-216-809-11	METAL CHIP	100	5%	1/10W	R3501	1-216-809-11	METAL CHIP	100	5%	1/10W
R3103	1-216-864-11	SHORT CHIP	0			R3502	1-216-809-11	METAL CHIP	100	5%	1/10W
R3104	1-216-864-11	SHORT CHIP	0			R3551	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3107	1-216-835-11	METAL CHIP	15K	5%	1/10W	R3552	1-216-837-11	METAL CHIP	22K	5%	1/10W
R3115	1-216-864-11	SHORT CHIP	0			R3553	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3116	1-216-864-11	SHORT CHIP	0			R3554	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3125	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3555	1-216-864-11	SHORT CHIP	0		
R3126	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3556	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R3127	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3557	1-216-845-11	METAL CHIP	100K	5%	1/10W
R3151	1-216-809-11	METAL CHIP	100	5%	1/10W	R3558	1-216-833-11	METAL CHIP	10K	5%	1/10W
R3152	1-216-809-11	METAL CHIP	100	5%	1/10W	R3901	1-216-296-11	SHORT CHIP	0		
R3153	1-216-864-11	SHORT CHIP	0			R3902	1-216-296-11	SHORT CHIP	0		
R3154	1-216-864-11	SHORT CHIP	0			R3905	1-216-296-11	SHORT CHIP	0		
R3157	1-216-835-11	METAL CHIP	15K	5%	1/10W	R3906	1-216-296-11	SHORT CHIP	0		
R3165	1-216-864-11	SHORT CHIP	0			R3907	1-216-864-11	SHORT CHIP	0		
R3166	1-216-864-11	SHORT CHIP	0			R3911	1-216-864-11	SHORT CHIP	0		
R3175	1-216-845-11	METAL CHIP	100K	5%	1/10W	R3912	1-216-864-11	SHORT CHIP	0		
						R3913	1-216-864-11	SHORT CHIP	0		

Ref. No.	Part No.	Description	Remark		
R3914	1-216-864-11	SHORT CHIP	0		
R3917	1-216-864-11	SHORT CHIP	0		
R3918	1-216-864-11	SHORT CHIP	0		
R3919	1-216-864-11	SHORT CHIP	0		
R4002	1-216-864-11	SHORT CHIP	0		
R4501	1-216-801-11	METAL CHIP	22	5%	1/10W
R4502	1-216-801-11	METAL CHIP	22	5%	1/10W
R4510	1-216-805-11	METAL CHIP	47	5%	1/10W
R4511	1-216-801-11	METAL CHIP	22	5%	1/10W
R4512	1-216-864-11	SHORT CHIP	0		
R4514	1-216-805-11	METAL CHIP	47	5%	1/10W
R4515	1-216-805-11	METAL CHIP	47	5%	1/10W
R4516	1-216-805-11	METAL CHIP	47	5%	1/10W
R4517	1-216-864-11	SHORT CHIP	0		
R4519	1-216-864-11	SHORT CHIP	0		
R4521	1-216-864-11	SHORT CHIP	0		
R4701	1-216-864-11	SHORT CHIP	0		
R4702	1-216-864-11	SHORT CHIP	0		
R4703	1-216-864-11	SHORT CHIP	0		
R4704	1-216-864-11	SHORT CHIP	0		
R4705	1-216-864-11	SHORT CHIP	0		
R4706	1-216-864-11	SHORT CHIP	0		
R4717	1-216-864-11	SHORT CHIP	0		
R4718	1-216-864-11	SHORT CHIP	0		
R4805	1-216-801-11	METAL CHIP	22	5%	1/10W
< NETWORK RESISTOR >					
RB1103	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1104	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1105	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1106	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1107	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1108	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1109	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)		
RB1110	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)		
RB1111	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1112	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)		
RB1113	1-234-400-21	CONDUCTOR, NETWORK	(1005X4)		
RB1114	1-234-371-21	RES, NETWORK	47 (1005X4)		
RB1115	1-234-371-21	RES, NETWORK	47 (1005X4)		
< TERMINAL >					
TB3901	1-780-453-11	TERMINAL BOARD (SPEAKER) 2P (SPEAKER/CENTER,WOOFER)			
< VIBRATOR >					
X501	1-795-058-21	VIBRATOR, CERAMIC (5MHz)			
X1101	1-795-630-11	VIBRATOR, CRYSTAL (27MHz)			
X3051	1-795-660-21	QUARTZ CRYSTAL UNIT (49.152MHz)			

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

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